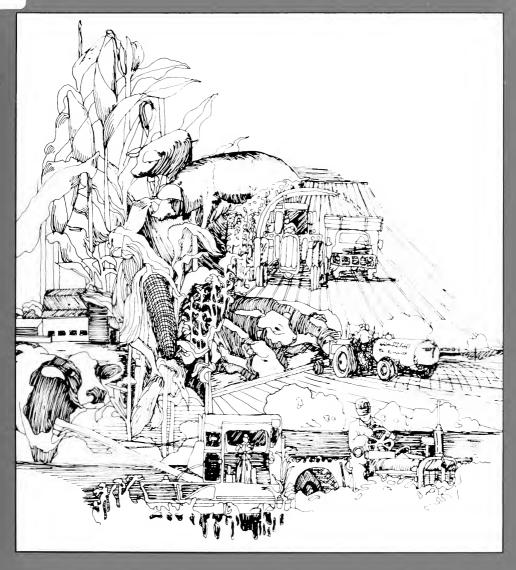


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1993 69th annual UMMARY OF ILLINOIS FARM BUSINESS RECORDS



COMMERCIAL FARMS: Production / Costs / Income / Investments
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN / COLLEGE OF AGRICULTURE / COOPERATIVE EXTENSION SERVICE

CIRCULAR 1334

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SOURCE OF DATA

This report is based on data obtained from farm business records on 7,113 Illinois farms. It is the 69th annual summary of such records obtained from farmers cooperating with the University of Illinois Cooperative Extension Service, the Department of Agricultural Economics, and the Illinois Farm Business Farm Management (FBFM) Association.

At present, about one out of every five Illinois commercial farms with over 500 acres or total farm sales over \$100,000 is enrolled in this service, which grew steadily until 1982. Except for 1988, enrollment has declined slightly each year since 1982. One factor contributing to this decline has been the continued decline in the number of farms in the state. In 1994, 10 associations in 102 counties are being served by 66 full-time field staff and one half-time field staff specialist. Participation in this farm-business analysis program is voluntary; cooperating farmers pay a fee for the educational services.

The program's development since 1940 is shown below.

Year	Associa- tions	Counties partici- pating	Field staff employed	Farmers enrolled
1940	. 3	23	3	680
1950	. 8	59	15	2,760
1960	. 10	100	33	5,494
1970	. 10	102	42	6,553
1980	. 10	102	67	8,205
1990	. 10	102	70	7,192

Estimates for 1993 indicate that 90 percent of the 7,113 farms covered in this report are larger than 240 acres. For the most part, this 90 percent falls within the size of business that includes farms selling \$50,000 or more of farm products per year. In the 1992 Census of Agriculture, farms selling \$50,000 or more accounted for 91 percent of all sales from Illinois farms.

The segment of Illinois agriculture that includes farms with more than 180 acres is often referred to as "commercial farming." In 1992, there were 38,895 farms in Illinois with more than 180 acres and with sales of \$10,000 or more. The figures that follow, taken from the 1992 Census of Agriculture, show that these farms represented 75 percent of the 52,198 farms larger than 50 acres and that these farms produced more than 99 percent of the agricultural products sold from Illinois farms.

Acres per farm	Percent of all farms over 50 acres	Percent of census farms enrolled in FBFM	Number of farms enrolled in FBFM
180-499	. 38.6	9.2	1,856
500-999 1,000+		18.2 20.8	2,320 1,244

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Although most of the 1993 recordkeeping farms covered in this report are within the two smaller size groups, the figures show that they are not distributed proportionately among the groups. There were 5,977 farms identified by the Census with more than 1,000 acres in 1992. About a fifth of these farms (20.8 percent) were enrolled in the Illinois FBFM Association. Of the 12,750 farms in the group having from 500 to 999 acres, 18.2 percent also participated in the farm record program. Only about 5 percent of the farms enrolled had fewer than 160 acres. The average size of all farms enrolled in 1993 was 779 acres, compared with an average of 354 acres for all Illinois farms.

The data presented in this report is the total of operator and landlord income, expenses, and investments in the farm business. The group averages are identified by size of business, type of farm, and quality of soil found on the farm. Where segments of Illinois agriculture are identified by these criteria, the data from recordkeeping farms may be used with reasonable confidence, even though the recordkeeping farms as a group do not represent a cross section of all commercial farms in the state.

USES FOR THIS REPORT

The management of a modern commercial farm involves decision making in the application of technology, the choice of a proper combination of crop and livestock enterprises, and effective business administration of the farming operations. A basic analysis of a farm business involves a careful study of past performance to detect problems and strengths in the farming operation. Also involved is the process of planning and developing future operations to realize the full potential of the land, labor, and capital resources available and to improve the economic efficiency of the farm business.

The farm-business summaries contained in this report are used by individual farmers to analyze their business operations and to develop plans for future farming operations. This report summarizes the information so that specialists involved in agricultural extension, research, teaching, and agribusiness activities may use the data to help them perform their duties effectively. The definition of terms and accounting measures on the following pages will be of assistance in using the data.

The first part of the report (Tables 2, 3, 4, 5, 7, and 8) summarizes selected recent changes in farm income on Illinois farms. It also identifies economic forces and factors that contribute to these changing trends. The data presented in Tables 5 through 8 are the total of operator and landlord data. Some of the data used in the text are drawn from previous issues of this report.

The second section (Tables 9 to 18) presents data on livestock enterprises. The comprehensive and detailed information contained in this section is a valuable resource for anyone interested in livestock production. Because part of the feed grains and roughages produced on Illinois farms is marketed through livestock, the margins of income from livestock enterprises are important in interpreting the economic results of some farming operations.

The third section (Tables 19 to 27a) discusses costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of farms in northern, central, and southern Illinois. It is the total of operator and landlord data. It reports on the 25 percent of grain farms that received the highest return to management per dollar of cost and the 25 percent that received the lowest return. It also reports on two-man and three-man hog and beef farms. A two-man hog and beef farm uses from 21 to 27 months of labor; a three-man hog and beef farm, from 31 to 39 months.

DEFINITION OF TERMS AND ACCOUNTING METHODS

Soil-productivity rating

This rating is an average index representing the inherent productivity of all tillable land on the farm. Individual soil types on each farm are assigned an index ranging downward from 100. All ratings were revised in 1971 to reflect a basic level of management as outlined in Circular 1156 of the Illinois Cooperative Extension Service, *Soil Productivity in Illinois*. New land values were assigned in 1980. The adjustment of land values brings them to current market levels.

Hay equivalents, tons

To get the equivalents, we took the total of 1.0 multiplied by the pounds of hay, 0.45 multiplied by the pounds of hay silage, 0.33 multiplied by the pounds of corn silage, and 24 multiplied by the pasture days per feed unit (which are also multiplied by the total feed units per cow). This total is then divided by 2,000.

Sampling technique

Data from all records certified usable for analysis by field staff were aggregated by size (acres or number of cows), type of organization, value of the feed fed, and soil-productivity rating. Electronic data-processing was used to summarize the data.

Type of farm

Grain farms are farms where the value of the feed fed was less than 40 percent of the crop returns

and where the value of feed fed to dairy or poultry was not more than a sixth of the crop returns. Since 1973, farms with livestock have been essentially excluded from the sample of grain farms in northern and central Illinois in Table 19; since 1978, from the grain-farm sample in Table 20; and since 1982, from the grain-farm sample in Table 5.

Hog or beef farms are farms where the value of feed fed was more than 40 percent of the crop returns and where either the hog or beef-cattle enterprise received more than half of the value of feed fed.

Dairy farms are farms where the value of feed fed was more than 40 percent of the crop returns and where the dairy enterprise received more than one-third of the value of feed fed.

Cost items

The value of feed fed includes on-the-farm grains with the following average prices per bushel: corn, \$2.28; oats, \$1.54; and wheat, \$3.19. Commercial feeds were priced at actual cost, hay and silage at farm values, and pasture at 40 cents per animal unit per pasture day. A pasture day represents an intake of about 20 to 25 pounds of dry matter, defined as 16 pounds of total digestible nutrients (TDN) from

the pasture used.

Cash operating expenses include the annual cash outlays for these nondepreciable items: fertilizer, pesticides; seeds (including homegrown seeds); machinery repairs; machine hire and lease; fuel and oil; the farm share of electricity, telephone, and light vehicle expenses; building repairs; drying and storage; hired labor; livestock expenses; taxes; insurance; and miscellaneous expenses. Purchased feed, grain, and livestock are not included because they have been deducted from gross receipts in computing the value of farm production. The interest paid is not included because an interest charge is made on the total farm investment. But the total interest paid by the operator only on all debt-operating debt plus longer-term debt—is listed separately in Tables 19a to 27a under "Some costs and returns per tillable acre."

Machinery and equipment include depreciation; repairs; machine hire and lease; fuel and oil; and the farm share of electricity, telephone, and light vehicle

expenses.

Labor includes hired labor plus family and operator's labor, charged in 1993 at \$1,575 a month.

Interest on nonland capital covers the interest charged at 7 percent on the sum of one-half the average of the January 1 and December 31 inventory values of grain, plus the average of the January 1 and December 31 inventories of remaining capital investment in livestock, machinery and light vehicles, buildings, and soil fertility, plus one-half the cash-operating expense, exclusive of interest paid. In Tables 5, 7, and 8, this charge is combined with the land charge or net rent and labeled interest charge

on capital. The average cash interest paid per farm by all farm operators was \$14,422. Details on operator and landlord shares of expenses and income are published annually in research reports by the Department of Agricultural Economics.

Land charge or net rent is the bare land priced at current land values multiplied by 4.5 percent to reflect

net rents received by the landlord.

Total nonfeed costs include cash-operating expenses, adjustments for accrued expenses and farmproduced inputs, depreciation, and charges for unpaid labor and interest including land charge. Purchased

feeds and livestock are omitted.

The basic value of land (the current basis) is adjusted each year according to the February index of land prices in Illinois as reported by the United States Department of Agriculture (USDA). An additional adjustment was made to this index in 1984 to reflect the large drop in land values. The land value index for 1993, using a base earning value of 1979 = 100, was 70.

The capital account adjustment includes the gain or loss on capital items sold less any amortization

deduction.

Return items

Crop returns are the sum of grain, seed, and feed sales; the value of homegrown seed used; the value of all feed fed (except milk); government-deficiency and diverted-acre payments received and accrued; and the change in value for feed and grain inventories, less the value of feed and grain purchased. Government PIK (payment in kind) certificates purchased to redeem grain under government loan are included in the feed-and-grain purchase account.

The total value of farm production is the cash and accrued value of sales of products and services, less the cost of purchased feed, grain, and livestock, plus the change in inventory values for grain and livestock,

plus the value of farm products used.

Net farm income is the value of farm production, less total operating expenses and depreciation, plus gain or loss on machinery or buildings sold. Net farm income includes the return to the farm and family for unpaid labor, the interest on all invested capital, and the returns to management.

Labor and management income per operator is total net farm income, less the value of family labor and the interest—including net rent—charged on all capital invested. This figure, as the residual return to all unpaid operators' labor and management efforts, is then divided by the months of unpaid operator labor and multiplied by 12 to reflect income for one operator on multiple-operator farms.

Capital and management earnings are net farm income, less a charge for all unpaid labor.

Management return is the residual surplus after a

charge for unpaid labor and the interest or land charge on capital are deducted from net farm income.

The rate earned on investment is capital and management earnings—interest on all capital and land charge, plus management returns—per \$100 of the total farm average annual investment.

RECENT CHANGES IN INCOME ON ILLINOIS FARMS

Farm business trends in 1993

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 1993, Illinois ranked first in the nation in the production of soybeans and of corn. The total value of corn and soybeans produced on Illinois farms was 21 percent of the total U.S. production for these crops. In 1992, the total value was 69 percent of the total value of production in Illinois from all crops and livestock and 91 percent of the value of production from all crops produced.

Crops. Year-to-year variations in net income are related to crop yields, grain prices, and acres in high cash-value crops. Corn yields in 1993 were lower than the record set in 1992, while soybean yields were equal to those of 1992. In 1993, the average corn yield for Illinois was 130 bushels per acre, 19 bushels below the 1992 record high yield. Recordkeeping farms averaged 132 bushels per acre in 1993, 21 bushels below the 1992 yield. Soybean yields were 43 bushels per acre in 1993, equal to the record set in 1992. Recordkeeping farms averaged 45 bushels per acre in 1993. Crop yields on the 7,113 record-keeping farms covered in this report averaged 2 to 5 percent above the average for all Illinois farms reported by the Illinois Crop Reporting Service.

This was the second year that crop sales have been divided between old and new crop sales. The prices received for old crop soybeans sold during the year averaged 32 to 35 cents per bushel above 1992 prices (Table 1). Corn prices received in 1993 averaged 14 cents less than those received in 1992. The price received for new crop corn averaged 29 to 34 cents higher than the year before, and the price received for new crop soybeans averaged 81 to 85 cents higher. Wheat sold for 38 to 47 cents less per bushel during the year. Crops under loan with the Commodity Credit Corporation (CCC) and forfeited at the end of the loan period are included as grain sales. The selling price would be the loan rate for that particular crop. Positive marketing margins on old-crop corn inventoried at the beginning of the year averaged about 14 cents. The average price received for old-crop soybeans was 46 cents above the beginning-of-year inventory price. The year-end, new-crop corn inventory price was 70 cents higher

Table 1. Average Prices Received and Paid by Farm Recordkeepers for Grain, Livestock, and Milk

	19	93	19	92	
	Northern Illinois	Southern Illinois	Northern Illinois	Southern Illinois	
Grain prices per bus	hel				
Purchased — corn Sold — corn,	\$2.26	\$2.33	\$2.28	\$2.39	
old crop corn.	2.18	2.19	2.32	2.33	
new crop soybeans,	2.36	2.30	2.02	2.01	
old crop soybeans,	6.00	5.93	5.65	5.61	
new crop	6.27 2.73	6.12 2.87	5.42 3.20	5.31 3.25	
Livestock prices per			0.20		
Hogs, all weights Fed cattle, all		5.63	\$41.83		
weights Feeder cattle, all	7	5.59	73	3.41	
weights, prices paid	85	5.85	8-	1.64	
Dairy cattle, all weights	59	9.53	60	0.45	
Sheep and wool, all weights	50	0.78	48	3.51	
Milk per cwt	12	2.53	10	3.07	

than it was the year before, and the year-end, newcrop soybean inventory price was \$1.25 higher.

Production of the major crops in 1993 was lower than in 1992. Compared to 1992, corn production was down 21 percent; soybean production was down 8 percent; oat production was down 42 percent and at record low levels; grain sorghum production was down 35 percent. Wheat production was up 9 percent due to more acres harvested. The average yield of 44 bushels per acre was 10 bushels below the previous year's average. Hay production was up 24 percent. The Illinois 1993 All Crop Production Index, using a base value of 1977 = 100, was 110, down from 128 in 1992. Acreages of corn harvested for grain was down 10 percent from 1992 to 1993, while soybean acreage was down 8 percent from 1992. Wheat acreage harvested for grain increased 35 percent. Farmers abandoned only 7 percent of the acres planted compared to 21 percent not harvested the vear before.

The 1993 growing season was a challenge for farmers in many areas of the state. The season began with below normal temperatures, muddy fields, and flooding. Major flooding, especially along rivers in the western part of the state, continued all summer. Corn planting began about 3 weeks later than usual. Farmers were able to catch up later in May and finished by the third week of June.

Crop progress continued to lag behind normal and was further affected by heavy rainfall and flooding during the summer. Hot, humid weather in late August helped crops develop and improve. Harvest began in late September but was slowed due to wet field conditions. Drier weather in late October and early November allowed the harvest to be completed by mid-November.

Soybean planting also got off to a slow start and progressed about 2 weeks later than usual due to wet fields. Only 60 percent of the crop was planted by June 1. Early June rains further delayed planting and hindered emergence. Some acreage had to be replanted. Warmer weather in July and adequate moisture in August resulted in good crop progress. Crop maturity was about a week behind schedule, with harvesting starting in early October. The harvest was fairly well completed by late October.

Livestock. A second major determinant in farm income is the price farmers receive for livestock and livestock products. In 1993, the average prices received by farm recordkeepers in the Illinois FBFM Association were 9 percent higher for hogs, 1 percent higher for fed cattle, and 4 percent lower for milk than they were in 1992 (Table 1). The prices paid for all weights of feeder cattle and feeder pigs averaged 5 percent above the 1992 price for feeder cattle and 25 percent above the 1992 price for feeder pigs. Lower returns due to higher prices paid for feeder cattle caused returns above feed and purchased animals for the feeder-cattle enterprise to decrease from \$25.40 per hundredweight produced to \$17.10 (Table 10). Higher hog prices increased returns above feed cost from \$16.45 per hundredweight produced to \$18.76. Returns above feed were below the 5-year average for 1989 through 1993 by \$0.59 per hundredweight produced. Lower milk prices and higher feed costs in 1993 made dairy returns above feed cost per cow decrease from \$1,398 in 1992 to \$1,178 in 1993 and 7 percent below the average for the 5year period from 1989 through 1993.

Labor and management income

The average operator's share of labor and management income for the 5-year period from 1989 through 1993 on all northern Illinois recordkeeping farms (located north of a line from Kankakee to Moline) was \$22,832. Operators on 1,600 grain and hog farms in central Illinois had 5-year average earnings of \$33,958 (Table 2). Central Illinois occupies the area between the Kankakee-Moline line in the north and the Mattoon-Alton line in the south. Smaller farms and variable soil quality in northern Illinois have generated smaller earnings from crops. The farms in northern Illinois typically average 5 to 10 percent lower crop yields than those in central Illinois.

Northern Illinois has a heavier concentration of livestock, which, except for hogs, had lower earnings in 1993 compared to 1992. The difference in earnings between central and northern Illinois increased by \$3,695 in a comparison of the 5-year averages for the periods from 1988 through 1992 and from 1989

Table 2. Operator's 5-Year Average Share of Labor and Management Income by Size and Type of Farm, 1989 Through 1993

	Nur	mber of acr	es per farm	1						
	Under 340	340 to 649	650+	All						
		Northern	Illinois							
Acres of tillable										
land	242	480	962	590						
Labor and managem	ent earning	gs by type	of farm							
Grain	\$ 8,090	\$20,037	\$35,810	\$25,982						
Hog	14,543	24,904	34,095	22,675						
Beefa	2,924	8,506	14,081	8,746						
Dairy	15,217	22,961	d	18,090						
All	11,633	20,150	33,916	22,832						
	Central Illinois									
Acres of tillable										
land	275	507	981	724						
Labor and managem	ent earning	gs by type	of farm							
Grain ^b	\$14,156	\$27,754	\$49,385	\$37,828						
Grain ^c	7,190	20,997	38,019	29,421						
Hog	17,556	28,241	44,066	30,851						
All	13,182	25,584	44,574	33,958						
		Southern	Illinois							
Acres of tillable										
land	260	593	1,174	796						
Labor and managem	ent earning	gs by type	of farm							
Grain	\$ 9,491	\$16,198	\$33,885	\$26,356						
Hog	14,199	31,251	d	27,166						
Dairy	28,655	35,113	d	32,013						
All	16,226	23,851	33,885	27,047						

a Includes central Illinois

through 1993. The northern Illinois area in general suffered from a wet growing season in 1993 more than central and southern Illinois, resulting in considerably lower yields in the northern area of the state. The recordkeeping farms in northern Illinois averaged 590 tillable acres per farm, compared with an average of 724 tillable acres on farms in central Illinois.

The figure for labor and management income varies considerably, depending on the location and type of farm. For the period from 1989 through 1993, operators in southern Illinois averaged \$27,047 for labor and management. This average increased by \$4,319, compared with the average for the 5-year period from 1988 through 1992. When the average earnings for the 5-year period from 1989 through 1993 are compared with the earnings from 1988 through 1992, earnings increased in all areas of the state. The average for the 5-year period from 1989 through 1993 increased 17 percent in northern Illinois, 19 percent in southern Illinois, and 26 percent in central Illinois, as compared to the 1988 through 1992 5-year period.

In 1993, the labor and management income for all areas of Illinois averaged \$34,725 per farm. This figure is \$3,240 below the 1992 state average. Even though returns were below those of the year before,

they still averaged \$7,103 above the average for the 5-year period 1989 through 1993. Higher grain prices and good soybean yields helped stabilize earnings. The average soybean yield on all farms in the study was 45 bushels per acre, only 1 bushel per acre lower than the record yield established in 1992. The average corn yield of 132 bushels per acre equalled the last 5-year average. Gross crop returns of \$329 per tillable acre was actually \$12 per acre higher than the 1992 crop returns. Returns to cattle and dairy producers in 1993 were below 1992 returns, while returns to farrow-to-finish hog producers were slightly higher. Returns were unusually consistent across the central and southern Illinois areas and lower in northern

The income or salary of the farm operator whether tenant or part-owner—is the return for the labor and management provided by the operator. The level of income received is a measure of overall farming efficiency and includes compensation for the risk involved. The income includes the operator's gross sales and the net change in inventory. This income is reduced by operating expenses, depreciation, a charge for unpaid family labor, 7 percent interest on nonland investment, and a land-use charge equivalent to the average net rent received by landowners for crop-share leases from 1989 to 1992.

Whenever the income figures in Table 2 fall below the amounts required for living expenses and income and Social Security taxes, operators must use the charges deducted for interest on equity capital to pay these expenses. If we assume that \$35,000 is needed to pay living expenses and income and Social Security taxes, these figures for 5-year average, labor and management income indicate that to pay these expenses, the average farm operator's family uses between \$0 and \$25,000 of the return for equity capital, depending on the location and type of farm. Using part of the return to equity to pay family living expenses indicates that the farm operator is not receiving a competitive return for either his labor and management or his equity in the business. Offfarm income could be used to pay for some of the family living expenses.

Family living expenditures

Total cash living expenditures for a sample of 467 central Illinois, sole-proprietor, farm-operator families in 1993 averaged \$35,225 (Table 3). This figure is 3 percent higher than the 1992 average. Capital purchases for family living expenses of \$4,996 include the family's share of the auto, plus items that exceed \$250 and will last more than one year. Capital purchases for family living were 12 percent of the total cash outlay for all family living expenditures in 1993.

The average farmer in this sample paid \$14,121 in interest in 1993 on operating, machinery, and long-

highly productive soils with soil-productivity ratings from 86 to 100.

Heavy-till and transition soils with soil-productivity ratings from 56 to 85.

Data not available.

Table 3. Average Sources and Uses of Funds Over a 4-Year Period and by Noncapital Living Expenses for Selected Illinois Farms

		All records, av	erage per farm		Family of 3	to 5, 1993 ^a
	1993	1992	1991	1990	High-third	Low-third
Number of farms	467	452	456	408	95	95
Tillable acres farmed. Acres owned Farm assets, January 1° Farm assets, December 31° Liabilities, January 1 Liabilities, December 31 Net farm income	125 \$432,768 450,325 220,410 223,353	755 132 \$426,539 450,722 218,402 229,076 55,759	731 131 \$381,588 383,283 198,764 202,708 30,596	719 120 \$358,394 384,363 183,161 203,168 50,825	946 150 \$532,186 546,960 300,027 298,039 68,608	631 96 \$332,511 354,997 178,983 190,263 48,950
Source of dollars Net nonfarm income Money borrowed Farm receipts Total sources	\$ 13,122 135,712 220,045	\$ 12,166 144,676 193,259 \$350,101	\$ 12,226 118,446 177,832 \$308,504	\$ 12,624 116,122 180,737	\$ 11,533 192,299 283,806	\$ 11,868 105,162 197,887
Use of dollars Interest paid. Cash operating expenses Capital farm purchases. Payments on principal. Income and Social Security taxes Net new savings and investment. Total living expenses. Living — capital purchases	\$ 14,121 139,570 26,946 135,090 10,504 2,427 \$ 35,225 4,996	\$ 16,006 125,392 19,867 134,566 10,172 5,017 \$ 34,336 4,745	\$ 15,550 111,037 22,829 113,510 11,326 -2,646 \$ 32,480 4,418	\$15,070 112,943 27,834 98,101 9,444 9,710 \$ 32,090 4,291	\$487,638 \$ 19,708 178,062 30,158 197,127 12,450 -6,845 \$ 50,704 6,274	\$314,917 \$ 11,691 129,074 29,996 95,941 7,549 10,738 \$ 25,028 4,900 \$314,917
Total living expenses	\$ 35,225 4,996	\$ 34,336	\$ 32,480	\$ 32,090	\$ 50,704	\$ 2

Records were sorted into thirds according to total noncapital living expenses.

Modified-cost basis, except the land value, which was held at the same current value for January 1 and December 31.

term real estate debts. This interest expense was 9 percent of total operating expenses (including interest paid) and 6 percent of total farm receipts, or \$19 per tillable acre farmed in 1993. The average amount of interest paid in 1993 was \$1,885 less than the amount paid in 1992. This is the first time in five years that the amount of interest paid was less than the amount paid in the previous year.

The most significant financial facts about 1993 are as follows:

- · Net farm income, plus net nonfarm income, was \$18,128 more than the sum of family living capital purchases, total living expenses, and payments for income and Social Security taxes. This was the second largest this margin has been since the 1970s;
- Liabilities of \$223,353 as of December 31, 1993, were 50 cents for each dollar of farm-only assets, including land at current value and machinery at depreciated value. The 50 cents was the lowest liability for each dollar of any year in the last decade;
- Capital purchases of \$26,946, averaging \$36 per tillable acre, were the second highest for any year during the last decade. That compared to \$31 per tillable acre in 1991 and \$26 in 1992;
- The amount of money borrowed exceeded principal payments for the 5th year in a row, after 3 years in which principal payments exceeded money bor-
- The amount of noncapital living expenses per tillable acre farmed was \$47, which was the highest amount in recent years;
- Income and Social Security taxes paid increased by

\$332, and the total amount of taxes paid, \$10,504, was the second largest amount since this study began:

 Medical expenses averaged over \$5,000 for the second year in a row. Since 1990, medical expenses have increased \$976 or 22 percent.

The 1993 records from three- to five-member families were sorted into high one-third and low onethird groups according to the family's total living expenses (Table 3). The total cash living expenses for the high-third group averaged \$50,704, compared with \$25,028 for the low-third group. The high-third group farmed 315 more acres than the other group and owned 16 percent of the land farmed; the lowthird group owned 15 percent of the land farmed. The results indicate that the low-third group had more nonfarm taxable income. The high-third group had 57 percent more outstanding debt and a higher net farm income. When net farm income is added to net nonfarm income, and total family living expenses-including capital purchases for family living-and payments for income and Social Security tax are subtracted, the low one-third group had \$12,628 more dollars remaining than the high onethird group.

Living expenses included cash expenditures for food, operating expenses, clothing, personal items, recreation, entertainment, education, transportation, life insurance, contributions, and medical expenses. The sample of 467 farms contained 21 more tillable acres than the average of all the recordkeeping farms in the state. Management was also considered slightly above average. In view of these factors, average total living expenses for all recordkeeping families (excluding capital purchases) are estimated to be between \$28,000 and \$30,000 or 15 to 20 percent below the average total living expenses of these 467 central Illinois farms. When the \$13,122 net nonfarm income for 1993 is used for living expenses, the remaining \$27,099 must be generated from the farm business to pay the \$40,221 used for total living expenses including family living capital purchases. The figure, \$27,099, amounts to \$36 per tillable acre farmed.

Income changes on Illinois farms

The average operator's net farm income for all farms in 1993 was \$55,895; it was \$54,097 in 1992 (Table 4). Operator net farm incomes decrease steadily as a higher percent of gross farm returns is used to pay interest. On the average, when more than 25 to 30 percent of gross farm returns is used to pay interest, the operator's net farm income is usually negative. Due to the higher incomes in 1993, a net farm income did not become negative until 30 to 35 percent of the gross farm returns were used to pay interest. Interest paid as a part of gross farm returns for all operators averaged 6.9 percent in 1993; 7.9 in 1992; 9.9 in 1991; 8.8 in 1990; and 8.9 in 1989.

Comparative costs and returns between years and among major types of farming operations in northern and central, and in southern Illinois are reported in Tables 5, 7, and 8. The separation of farms into northern and central, and southern Illinois is based on soil-type regions that divide the state approximately on an east-west line from Mattoon to Alton. The sample consisted of grain, hog, beef, and dairy farms having between 340 and 799 acres or an average of 567 acres. Labor available on farms of this size averaged 13 months on grain farms, 23 months on hog farms, 18 months on beef farms, and 26 months on dairy farms. The data in the tables are presented as if the farms were all owner operated. For leased farms, the landlord and tenant shares of the business were combined. Depending on the location, between 55 and 75 percent of the land in Illinois is tenant operated, primarily under crop-share, some cash-rent, and a small number of livestock-share leases.

Size of farm, type of farm, quality of soil, and managerial inputs have been held reasonably constant by the sampling procedure used in selecting farms within each category. Variations among figures for 1992, 1993, and the 5-year average are due to changes in farm prices and to costs, weather, and internal farming adjustments. The data in Tables 5, 7, and 8 are particularly helpful for comparing types of farming and for evaluating changes in farm costs and returns for a particular size and kind of farm. The data do not reflect overall farming adjustments due

to the enlargement of farms or to major changes in the use of resources.

The figure for net farm income comprises returns to the farm family for all unpaid labor, interest on all invested capital, and the managerial inputs used in farming. Changes in the value of farm inventories and that of consumed farm products are included as income. Net farm income is calculated by accounting methods comparable to the accrual method used in calculating taxable farm income for the federal income tax. Two important differences in the accrual method of income tax accounting should be noted: the provision for capital gains on livestock sales, which was in effect until 1987, and the inclusion of interest paid as a farm expense. The operator's share of net farm income, which is listed below total net farm income in many tables, does have the interest expense deducted from it.

The figures for net farm income are the amount available from the farm business for living costs, income and Social Security taxes, debts, new investments, and savings. Interest must also be paid from total net farm income, but not the operator's share because it has already been subtracted. New capital investments for the farm business have been included with total cash expenditures. Although the cash balance reflects the cash position of the farm business, the figure is influenced by purchases and sales of feed and livestock and by changes in liabilities and borrowed funds.

The investment per farm is established as an average of the investments in farm inventory on January 1 and December 31. Physical quantities of grain and livestock are valued at farm market prices. Machinery, buildings, and soil fertility are valued at the remaining capital cost: original cost less depreciation as allowed for income tax deductions to date. Land is priced at current values, with the same value used for the beginning- and end-of-year land inventories. A base land value is established for each farm on the basis of a soil-productivity rating adjusted to a current value each year by using the February index of land prices in Illinois. The procedure used for adjusting the land value is described in the definitions of soil-productivity rating and of the value of land (the current basis) on pages 2 and 3. The annual change in land values represents an adjustment in accounting to bring land values to current market levels. The land adjustment index for 1993 did not change from the index used in 1992.

Northern and central Illinois farms

Grain farms. The net farm income for northern and central Illinois grain farms having 340 to 799 acres and no livestock averaged \$100,201 in 1993, with the operator's and landlord's shares combined (Table 5). This income was \$2,546 above that of 1992 and \$12,613 above the 5-year average income

Table 4. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 1989 Through 1993

			Interest pa	id as a perce	nt of gross fa	rm returns		
	Under 10	10-14.9	15-19.9	20-24.9	25-29.9	30-34.9	35+	All
Percent of farms								
1989	65	15	9	5	3	1	2	100
1990	65	16	9	5	3	1	1	100
1991	59	16	10	6	4	2	3	100
1992	69	16	7	4	2	1	1	100
1993	74	14	6	3	1	1	1	100
Net farm income								
1989	\$51,632	\$42,415	\$31,688	\$23,894	\$14,677	\$ 61	\$- 2,990	\$44,652
1990	56,786	41,803	34,008	27,946	19,210	5,407	-13,768	48,211
1991	36,437	21,663	12,110	3,850	95	-6,907	-30,034	25,502
1992	60,758	50,713	35,264	28,201	11,267	7,738	-19.068	54.097
1993	63,707	43,911	27,908	21,346	9,856	-15,737	-22,561	55,895

from 1989 through 1993. This income was the highest of any during the last decade. The next highest was \$97,655 in 1992. The value of farm production was also the highest of any of the last 10 years, increasing by \$8,748 compared to 1992. The value of farm production, which averaged over \$200,000 for the first time, increased due to a \$14,136 increase in inventory value. Accounts receivable, which is mainly ASCS deficiency payments due, dropped by \$12,494. Net cash operating income increased by \$32,780. Total operating expenses increased by \$1,752. Depreciation expense increased from \$10,908 in 1992 to \$15,358 in 1993. This was a 41 percent increase. Depreciation increased due to more capital purchases and a change in the tax law that increased the amount that can be "expensed" or depreciated in the year of purchase. This was the highest amount of depreciation expense on these farms since 1986.

The main factor causing incomes on northern and central Illinois grain farms to increase as compared to the year before was higher grain prices and good soybean yields. The average soybean yield on these farms in 1993 was 47 bushels per acre, the same as the previous year's yield. The average corn yield was 140 bushels per acre, compared to 162 the year before. Corn was inventoried 70 cents higher at the end of 1993 compared to the beginning, while soybeans were inventoried \$1.25 higher. As a result of the good yields and higher grain prices, the value of grain inventories on these farms increased \$14,136 at the end of the year as compared to the beginning. The decrease in accounts receivable was due to a decrease in accrued deficiency payments from the government farm program. Most farmers continue to participate in the government farm program, setting aside 10 percent of their corn acreage base.

The average price received in 1993 for corn and soybeans was slightly lower than that of the previous year. However, the average price received for old crop corn and soybeans was slightly higher than the inventory price at the beginning of the year. This resulted in a positive marketing margin for corn and

soybeans. Capital purchases of \$18,176 in 1993 were \$4,917 more than in 1992 and \$3,216 above the 1989 through 1993 average. They were at the highest level for this group of farms for any year during the last decade.

While accrual net farm incomes increased \$2,546, net cash incomes increased \$21,806. A major reason for the difference is due to a large accounts receivable decrease, which affects only the accrual income. Management returns were \$18,083, \$3,103 less than 1992 but \$8,441 higher than the 1989 through 1993 5-year average and the second highest for any year during the last decade. The last 5-year average is \$9,642. The rate earned on investment was 6.10 percent, compared with 6.10 percent in 1992 and the last 5-year average of 5.65 percent. This rate earned on investment for grain farms was the third lowest rate earned in 1993 for any type of farm.

A study of the cost to grow corn and soybeans on central Illinois farms is summarized in Table 6. These farms had a soil-productivity index ranging from 86 to 100. The farms used 93 percent of their tillable land to grow corn and soybeans, with 47.3 percent of the acres in corn and 46.1 percent in soybeans. The table compares 1993 costs per acre with the 1992 costs. In 1993, the total cost per acre averaged \$366 for corn and \$300 for soybeans. From 1992 to 1993, it increased 6 percent for corn and 9 percent for soybeans.

Nonland costs of \$1.61 per bushel for corn and \$3.61 for soybeans in 1993 are the most relevant costs for continuing production in the short run, especially where land is free of debt. Total costs to produce a bushel of corn and soybeans increased from 1992 to 1993 due to higher costs per acre. Lower corn yields also increased costs per bushel. Total costs per bushel increased 47 cents for corn and 49 cents for soybeans. If the 1993 yields had been 152 for corn and 48 for soybeans or the same as the average for the period from 1990 through 1993, the total cost per bushel would have been \$2.41

Table 5. Averages for Selected Total Farm Items on 340- to 799-Acre Northern and Central Illinois Grain, Hog, and Beef Farms

	Grain farms							Н	og farms				Beef farms				
	1993		1992	1989-1 aver			1993		1992		989-1993 average		1993		1992	19	989-1993 average
Number of farms	703		744		782		177		177		200		42		46		47
Total acres	581		578		575		547		557		552		509		534		524
rating Cash operating	86		86		86		80		81		81		78		78		78
income\$ Less purchased	198,811	\$ 16	57,197	\$ 172,	424	\$	353,388	\$	337,375	\$	338,470	\$	513,935	\$	505,538	\$	530,414
feed and livestock	374		540	1,	399	_	109,005		112,758	_	104,738	_	327,480	_	335,305	_	336,728
Net cash operating income\$ Accounts receivable	198,437	\$ 16	5,657	\$ 171,	025	\$	244,383	\$	224,617	\$	233,732	\$	186,455	\$	170,233	\$	193,686
change Inventory change Farm products used	-12,494 14,136 270	1	8,342 7,363 239	9,	409 983 264		-10,660 17,364 572		7,271 14,452 528		-850 10,856 582		-13,328 19,397 988		9,044 23,283 955		-1,613 6,547 972
Value of farm production \$ Total cash operating	200,349	\$ 19	1,601	\$ 179,	863	\$	251,659	\$	246,868	\$	244,320	\$	193,512	\$	203,515	\$	199,592
expenses	87,781		31,306		569		122,643		120,251		116,650		101,972		97,551		99,812
change	-2,991 15,358		1,732 0,908		-53 759		-1,677 25,086		1,537 23,303		-560 24,502		-4,357 23,413		309 17,437		-107 22,026
Net farm income \$	100,201	\$ 9	7,655	\$ 87,	588	\$	105,607	\$	101,777	\$	103,728	\$	72,484	\$	88,218	\$	77,861
(Operator's share) ^a Unpaid labor charge Returns to capital	(39,863) 18,430		2,895) 7,796		553) 763		(45,506) 21,899		(47,112) 20,703	1	(48,068) 20,186		(31,917) 20,288		(40,560) 18,848		(29,334 18,376
and management Interest charge on	81,771		9,859		825		83,708		81,074		83,542		52,196		69,370		59,485
capital	63,688		8,673 1.186		183 642	\$	65,282 18.426	_	63,858 17,216	_	69,021 14,521	<u>-</u>	66,405 -14,209	-5	65,368	_	73,406 -13,921
Management returns \$	18,083		,		-	Þ	- ,	Þ	,	Þ		3	,	4		Þ	-,
Total cash income ^b Total cash expenditures ^b	200,534 106.083		7,536 4.891	173, 96	683		354,708 259.012		338,316 256,299		339,687 248.425		514,825 458.195		507,000 449.147		531,334 459,633
Cash balance\$	94,451	_	2.645		293	\$	95,696	\$	82,017	\$	91,262	\$	56,630	\$	57.853	\$	71,701
Capital purchases	18,176		3,259		960	Ť	27,558	Ť	23,448	•	27,207	*	28,778	•	16,341	•	23,132
Farm Investment Livestock inventory \$ Grain inventory	187 122,262		172 7,182	\$ 107,	187 128	\$	96,117 101,285	\$	103,241 98,576	\$	100,529 97,313	\$	226,981 92,498	\$	224,131 92,376	\$	224,828 92,277
cost in: Machinery and auto Buildings and fence Soil fertility	27,184 15,716 70		5,354 4,724 60		452 113 62		40,063 42,333 63		42,656 48,707 63		37,289 48,955 107		34,437 35,544 50		35,297 39,537 0		34,867 44,188 536
Value of land (current basis) <u>\$1</u>	,175,009	\$1,16	2,640	\$1,107,	920	\$	985,014	\$	998,551	\$	958,838	\$	855,482	\$	887,264	\$	844,834
Total farm investment \$1	,340,428	\$1,31	0,132	\$1,253,	862	\$1	,264,875	\$1	,291,794	\$	1,243,031	\$1	,244,992	\$1	,278,605	\$1	,241,530
Rate earned on investment, percent	6.10		6.10		5.65		6.62		6.28		6.72		4.19		5.43		4.79

a Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.
b Includes sales or purchases of capital items.

for corn and \$6.25 for soybeans. These costs do not include a charge for management.

The cost of fertility for soybeans was allocated on the basis of phosphorus, potassium, and lime removals, with the residual allocated to corn. The total unpaid labor charge was based on the labor available. The nonland interest rate was 7 percent of one-half the average of the beginning- and end-ofyear inventory values for the crops on hand, plus one-half the cash-operating expenses (excluding interest paid), plus the depreciated value of machinery and buildings. The adjusted net rent was the average net rent received by crop-share landlords as reported on recordkeeping farms for the period from 1989 through 1993.

Hog farms. The net farm income in 1993 for northern and central Illinois hog farms having 340 to 799 acres averaged \$105,607, with the operator's and landlord's shares combined (Table 5). Net incomes were \$3,830 higher than net incomes in 1992, and \$1,879 higher than the average for the 5-year period from 1989 through 1993. The net farm incomes for this group in 1993 were the third highest for any year out of the last 10 years. Earnings for this type of farm were record-high in 1990. Incomes for this type of farm were the second highest for any type of farm in 1993 and for the average of 1989 through 1993. Higher grain prices resulted in a \$17,364 inventory increase in 1993, compared to a \$14,452 increase in 1992. Net cash operating income increased \$19,766. The value of farm production increased 2 percent, and cash operating expenses other than feed also increased 2 percent.

Management returns were \$18,426, an increase of \$1,210 from 1992 returns and \$3,905 above the 5-year average from 1989 through 1993. Capital purchases increased by \$4,110, compared with 1992's purchases, and were \$351 above the 1989 through 1993 average. Cash livestock sales decreased by \$5,084 compared with 1992 figures. The average number of litters farrowed for this group was 242, the second

highest ever.

Higher earnings caused the rate earned on investment to increase to 6.62 percent in 1993, compared with 6.28 percent in 1992. This was the highest for any type of farm in northern and central Illinois.

Table 6. Average Cost per Tillable Acre to Grow Corn and Soybeans on Central Illinois Grain Farms with No Livestock

	Co	rn			Soyb	ear	าร
19	93	19	92	19	93	19	92
Number of farms 5	88	6	15		88	6	615
	95		03	3	85	3	377
	51	1	76		49		49
Variable nonland costs		•		,	47	•	47
Soil fertility \$	51		52	Þ	17	Ф	17
Pesticides	26 24		24 24		28 14		25 13
Seed	14		14		6		6
Drying and storage Machinery repairs, fuel,	14		14		0		U
and hire	29		26		24		22
Total, variable costs \$1	_	_	40	=	89	-	83
	44	ΦI	40	₽	09	Φ	03
Other nonland costs	0.4			۱,	00	•	00
Labor\$	31	ъ	30	\$	29	Э	28
Buildings and storage	7		6 20	ı	4		3 16
Machinery depreciation Nonland interest	26 21		20 18		22 19		16
Overhead	14		13	l	14		13
_		_		٦.		_	
Total, other costs \$			87		88		76
Total, nonland costs \$2	243	\$2	27	\$1	77	\$1	59
Land costs				١.			
Taxes\$			20	1 -	20	\$	20
Adjusted net rent1	03	_	97		03	_	97
Total, land costs \$1	23	\$1	17	\$1	23	\$1	17
Total, all costs \$3	866	\$3	44	\$3	300	\$2	276
Nonland cost per bu \$	1.61	\$	1.29	\$	3.61	\$	3.24
Total, all costs per bu \$	2.42	\$	1.95	\$	6.12	\$	5.63
Average yield,				Γ	_		
	52	1	50		48		48
Total, all costs per bu \$	2.41	\$	2.29	\$	6.25	\$	5.75

The 5-year average rate was 6.72 percent, also the highest rate on any type of farm in northern and central Illinois.

Beef farms. The net farm income for northern and central Illinois beef farms having 340 to 799 acres averaged \$72,484 in 1993, with the operator's and landlord's shares combined (Table 5). This figure was \$15,734 lower than the 1992 figure and \$5,377 lower than the average from 1989 through 1993.

Higher prices paid for feeder cattle and lower corn yields contributed to the lower earnings. The average price paid for feeder cattle increased 5 percent in 1993 compared with 1992. The average price received for fed cattle increased 3 percent. Compared with 1992, the value of farm production decreased by \$10,003, or 5 percent. It was \$6,080 below the 5-year average for 1989 through 1993. These farms produced 2,363 hundredweight of beef per farm, or the weight-gain equivalents of 497 head, each gaining

475 pounds.

Management returns of a negative \$14,209 in 1993 for these farms were \$18,211 below 1992 returns and \$288 below the 5-year average from 1989 through 1993, which was a negative \$13,921. The 1992 management returns were the third highest of any year in the last 10 years. The only years that management returns have been positive in the last 10 years were in 1987, 1990, and 1992. Capital purchases were \$28,778 in 1993 compared to \$16,341 in 1992 and \$23,132 for the 1989 through 1993 average. Capital purchases were the highest in 1993 of any in the last 10 years. Cash operating expenses, excluding purchases of feed and livestock, increased 5 percent. The net cash balance for these farms was \$56,630, or \$1,223 less than in 1992 and \$15,071 below the average for 1989 through 1993. The net cash balance for these farms in 1993 was the lowest for any year out of the last 10 years.

Cost and returns to produce beef from 1990 through 1993, based on a detailed breakdown of individual costs from a selected sample of beef farms, are shown in Table 14. Total costs exceeded total returns in 1993. An analysis of feeder-cattle enterprises is discussed in detail under the livestock section.

The average rate earned on investment decreased from 5.43 percent in 1992 to 4.19 percent in 1993. The 5-year average rate earned on investment from 1989 through 1993 was 4.79 percent. The 1989 through 1993 average rate earned on investment is the lowest for any type of farm. The average total farm investment was \$1,244,992. The average investment in cattle of \$226,981 represents the second highest of any year during the last 10 years.

Farms on which beef cattle are raised or fed continue to compete for resources in Illinois, where nonmarketable resources, such as roughage, labor, and buildings, or very high levels of management are available. Higher feeder cattle prices along with slightly higher feed costs helped decrease returns in 1993 to

feeder-cattle enterprises. In recent years, this type of farm has survived primarily where there are large amounts of debt-free capital that have been combined

with very high levels of management.

Dairy farms. The net farm income for northern and central Illinois dairy farms having 340 to 799 acres averaged \$64,156 in 1993, with the operator's and landlord's shares combined (Table 7). This figure was \$20,705 below the 1992 figure and \$18,238 below the 5-year average from 1989 through 1993. The 1993 income was the lowest of any of the last 7 years. The average number of cows on these farms was 69, 5 below the average for 1992.

Lower milk prices, lower crop yields which decreased the value of inventories, and reduced accounts receivable for ASCS deficiency payments resulted in a lower value of farm production and net farm income. The value of farm production was \$204,480, 7 percent below the average for the 5-year period from 1989 through 1993. Cash operating expenses increased 6 percent in 1993 compared to 1992. (A detailed breakdown of the cost of producing milk can be found in Table 16.) Management returns of a negative \$15,158 were \$23,798 below the 1992 figure and \$17,347 below the average for the 5-year period from 1989 through 1993. For the last 10 years, management returns were positive 4 years. Capital purchases decreased to \$19,928 compared to \$26,432 and the 1989 through 1993 average of \$23,891.

The 1993 rate earned on investment for these farms was 3.94 percent; the 1992 rate was 6.16 percent. The 5-year average rate earned on investment was 6.28 percent. The 1993 rate earned on investment was the lowest for any type of farm in Illinois. The average price received for milk in 1993 was 4 percent lower than the average price received in 1992. At the beginning of 1993, milk prices were similar to prices received in 1992 but below 1992 prices during the summer and fall months and higher the last two months. Milk prices received for the first half of 1994 are above those of the first half of 1993. Dairy producers should face more favorable feed costs in 1994 as the growing conditions are better than the wet conditions that were experienced in 1993.

The price received for beef from all cull animals and vealers sold from the dairy herd can be an important factor in determining total returns. When beef prices were high, those sales accounted for as much as 20 percent of the total income from the dairy enterprise. But when beef prices are low, this source of income is only 10 to 12 percent of the total. In 1993, the returns from beef accounted for 15 percent of the total returns to the dairy herd, in comparison with 16 percent in 1992.

Southern Illinois farms

Grain farms. The net farm income for southern Illinois grain farms having 340 to 799 acres averaged

Table 7. Averages for Selected Total Farm Items on 340to 799-Acre Northern Illinois Dairy Farms

			•		
	1993		1992	19	989-1993 average
Number of farms	59		62		59
Total acres	479 70		470 71		472 71
Cash operating income\$ Less purchased feed and livestock	266,637 55,862	\$	256,764 53,320	\$	259,032 52,054
-	33,002	-	33,320	-	32,034
Net cash operating income\$ Accounts receivable	210,775	\$	203,444	\$	206,978
change	-7,690		5,552		-914
Inventory change Farm products used	3,808 2,587		9,153 2,209		6,364 2,433
Value of farm production\$	204,480	\$	220,358	\$	214,861
Total cash operating		*	,	•	,
expenses	120,169		113,643		110,405
Prepaid-unpaid change Annual depreciation	-1,099 26,254		174 21,680		-453 22,515
Net farm income\$	64,156	\$	84,861	\$	82,394
(Operator's share)a	(28,590)	1	(44,927)		(45,603)
Unpaid labor charge	25,761		26,661		25,266
Returns to capital and management	38,395		58,200		57,128
Interest charge on capital	53,553		49,560		54,939
Management returns\$	-15,158	\$	8,640	\$	2,189
Total cash income ^b	267,586		257,207		260,080
Total cash expenditures	194,169	_	191,863	\$	184,778
Cash balance\$ Capital purchases	73,417 19,928	\$	65,344 26,432	3	75,302 23,891
Farm Investment	,		20, .02		
Livestock inventory\$	123,227	\$	111,234	\$	113,859
Grain inventory Remaining capital cost in:	74,236		66,888		69,510
Machinery and auto	47,291		45.006		40.943
Buildings and fence	53,504		49,102		53,364
Soil fertility	92	ļ	79		414
Value of land (current basis)	675,616		673,092		631,941
Total farm investment\$	973,966	\$	945,401	\$	910,031
Rate earned on					
investment, percent	3.94		6.16	L_	6.28

^a Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

b Includes sales or purchases of capital items.

\$77,345 in 1993, with the landlord's and operator's shares combined (Table 8). This income is \$3,470 above net farm income in 1992 and \$13,912 above the average from 1989 through 1993. The 1993 income is the highest it has been for any of the last 10 years. Higher grain prices more than offset the drop in yields, resulting in increased cash operating income and a \$12,333 increase in inventories. These increases caused the value of farm production to increase \$16,812, or 11 percent in 1993 compared to 1992. Corn yields were 19 bushels per acre lower and soybean yields were 3 bushels per acre lower in 1993 compared to 1992. Farm operating expenses increased 12 percent, while depreciation expenses increased \$7,231, or 73 percent. Depreciation was at its highest level since 1985. The cash balance of \$64,499 was \$9,176 above the 1992 balance and the

Table 8. Averages for Selected Total Farm Items on 340- to 799-Acre Southern Illinois Grain, Hog, and Dairy Farms

	(Grain farms			Hog farms				
	1993	1992	1989-1993 average	1993	1992	1989-1993 average	1993	1992	1989-1993 average
Number of farms	201	231	233	50	59	72	31	28	35
Total acres	597	585	586	516	567	548	514	499	514
rating	59	59	60	58	59	59	59	60	59
Cash operating income	\$171,162	\$141,545	\$146,305	\$277,413	\$274,925	\$267,859	\$308,583	\$319,735	\$316,471
feed and livestock	12,355	8,795	10,269	94,067	92,458	87,314	62,859	74,120	70,455
Net cash operating income	\$158,807	\$132,750	\$136,036	\$183,346	\$182,467	\$180,545	\$245,724	\$245,615	\$246,016
Accounts receivable change	-2,251	1,517	-161	-1,310	747	-69	-1,083	398	-113
Inventory change Farm products used	12,333 821	17,828 803	7,599 891	14,830 1,177	17,624 1,044	8,922 996	10,488 1,513	22,042 2,694	11,982 2,440
Value of farm production	\$169,710	\$152,898	\$144,365	\$198,043	\$201,882	\$190,394	\$256,642	\$270,749	\$260,325
Total cash operating expenses	77,026	68,927	68,956	96,485	98,365	93,484	120,546	125,612	121,647
change	-1,821	167	-149	-1,329	1,271	-19	161	-3,798	-645
Annual depreciation	17,160	9,929	12,125	22,904	17,388	18,741	29,813	24,432	25,725
Net farm income	\$ 77,345	\$ 73,875	\$ 63,433	\$ 79,983	\$ 84,858	\$ 78,188	\$106,122	\$124,503	\$113,598
(Operator's share) ^a Unpaid labor charge Returns to capital	(36,424) 19,620	(38,531) 18,325	(27,284) 17,584	(48,937) 24,476	(42,903) 19,640	(41,760) 19,991	(69,927) 28,147	(89,481) 26,384	(78,527) 25,948
and management	57,725	55,550	45,849	55,507	65,218	58,197	77,975	98,119	87,650
capital	40,773	36,389	39,265	41,126	42,938	45,165	50,006	48,129	54,204
Management returns	\$ 16,952	\$ 19,161	\$ 6,584	\$ 14,381	\$ 22,280	\$ 13,032	\$ 27,969	\$ 49,990	\$ 33,446
Total cash income ^b Total cash	172,345	143,349	147,649	278,454	275,333	269,203	309,575	321,354	317,210
expenditures ^b	107,846	88,026	93,073	219,810	205,279	201,980	214,341	229,041	220,880
Cash balance Capital purchases	\$ 64,499 19,193	\$ 55,323 11,007	\$ 54,576 14,612	\$ 58,644 29,932	\$ 70,054 15,173	\$ 67,223 21,762	\$ 95,234 31,777	\$ 92,313 31,061	\$ 96,330 30,364
Farm Investment Livestock inventory	\$ 14,630 91,779	\$ 13,640 73,739	\$ 13,506 72,849	\$ 81,350 77,084	\$ 78,702 73,844	\$ 78,368 69,802	\$144,139 84,799	\$154,146 68,911	\$144,502 71,080
Remaining capital cost in:									
Machinery and auto Buildings and fence Soil fertility	31,505 9,547 42	25,449 8,438 55	25,233 8,629 44	30,797 30,622 46	30,664 30,734 62	29,050 29,656 67	54,705 27,534 0	59,299 28,489 0	54,713 30,682 0
Value of land (current basis)	682,845	662,908	647,203	550,185	638,043	578,335	585,876	568,599	565,003
Total farm investment	\$830,348	\$784,229	\$767,464	\$770,084	\$852,049	\$785,278	\$897,053	\$879,444	\$865,980
Rate earned on investment, percent	6.95	7.08	5.97	7.21	7.65	7.41	8.69	11.16	10.12

a Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.
b Includes sales or purchases of capital items.

highest since 1983, when studies for this type of farm began.

Capital purchases were \$19,193 in 1993, \$8,186 more than 1992 and \$4,581 above the 5-year average for 1989 through 1993. Capital purchases were the highest for any year during the last decade. Capital purchases in 1993 equaled \$35 per tillable acre compared to \$21 per tillable acre in 1992.

Management returns of \$16,952 for these farms were the second highest of any year during the last 10 years. The highest was \$19,161 in 1992. The 5-year average from 1989 through 1993 for manage-

ment returns was \$6,584. The rate earned on investment decreased in 1993 to 6.95 percent; in 1992, this rate was 7.08 percent. This was the lowest rate earned on investment for any type of farm in southern Illinois. The average rate earned on investment for the period from 1989 through 1993 was 5.97 percent, below the average rates for any other type of farm in southern Illinois.

Hog farms. The net farm income for southern Illinois hog farms having 340 to 799 acres averaged \$79,983 in 1993, with the landlord's and operator's shares combined (Table 8). This income was \$4,875

lower than net farm income in 1992 and \$1,795 higher than the average net farm income of \$78,188 earned from 1989 through 1993. Slightly higher hog prices and higher grain prices were the main reasons for the relatively good earnings. The value of farm production was down \$3,839, or 2 percent, in 1993 compared to 1992.

Management returns for 1993 were \$14,381, compared to \$22,280 in 1992 and \$13,032 for the 5-year period from 1989 through 1993. Capital purchases were \$29,932 in 1993, \$14,759 higher than 1992 and \$8,170 higher than the 1989 through 1993 average. Capital purchases were at their highest level for any year during the last decade. Cash operating expenses decreased \$1,880, or 2 percent; depreciation increased \$5,516 and was \$4,163 above the average for 1989 through 1993.

In 1993, the rate earned on investment decreased to 7.21 percent from 7.65 percent in 1992. The average rate earned on investment for the period from 1989 through 1993 was 7.41 percent. The rate earned on investment in this 5-year period for this type of farm was the second highest of any type of participating farm in Illinois. The 1993 rate earned on investment was the second highest of any type of farm.

Dairy farms. The net farm income in 1993 for southern Illinois dairy farms having 340 to 799 acres averaged \$106,122, with the operator's and landlord's shares combined (Table 8). This figure is \$18,381 below the net farm income earned in 1992 and \$7,476 below the average for the period from 1989 through 1993. This net farm income was the highest earned by any type of participating farm of this size in Illinois in 1993. Lower milk prices and lower grain yields caused the value of farm production to decrease by \$14,107 in 1993 compared to 1992. Net cash operating income increased by \$109 in 1993 compared to 1992, while the value of grain and livestock inventories increased by \$10,488. Cash operating expenses decreased \$5,066.

Capital purchases of \$31,777 were \$716 above 1992 capital purchases and \$1,413 above the average capital purchases for 1989 through 1993.

Management returns for this type of farm were \$27,969 in 1993; these returns were \$49,990 in 1992. The 5-year average from 1989 through 1993 was \$33,446. This type of farm had the highest management returns for any type of farm in 1993. The rate earned on investment of 8.69 percent was the highest in the state for this size of participating farm. The average rate earned on investment in 1992 was 11.16 percent, and the 5-year average from 1989 through 1993 was 10.12 percent. The average rate earned on investment by these southern Illinois dairy farms from 1989 through 1993 was the highest of any type of participating farm with 340 to 799 acres in Illinois. In 1993, the average value of bare land on these farms was \$1,244 per tillable acre. On northern

Illinois dairy farms, this value was \$1,685 per tillable acre.

The average number of milk cows per farm in 1993 was 93, compared with 100 in 1992, and with 96, the past 5-year average. The average of 93 cows in 1993 was 24 more than the average on farms of similar size and type in northern Illinois. In 1993, southern Illinois farms decreased the size of their herds by 7 cows over the 1992 herd size, while northern Illinois farms also decreased theirs by 5.

LIVESTOCK ENTERPRISES

The return per \$100 of feed fed from various livestock enterprises and the price of corn during each of the past 15 years are given in Table 9. Fifteen-year and 5-year averages are also shown. The difference between the average return figure and a feed cost of \$100 represents the margin available for labor, depreciation on equipment, cash expenses other than feed, interest on investment, and profit.

The margin needed to cover nonfeed costs varies with the kind of livestock and depends on the proportion of total production costs represented by feed. The 15-year averages from 1979 through 1993 represent the approximate level of return at which farmers have been willing to maintain livestock production. The average may not represent a break-even return on all farms because some farmers may discount market prices for some of the resources used in producing livestock. If farmers already have facilities for livestock, they only need to cover direct operating costs to continue production. However, when livestock production is a new or a long-term enterprise, farmers hope to cover all fixed and variable costs. Otherwise they should not undertake the enterprise.

As individual farmers try to increase profits, they tend to curtail livestock production when the return per \$100 of feed fed is below the 15-year average. This tendency on the part of producers causes supplies of livestock products to fluctuate.

In farrow-to-finish hog production, returns tend to follow a noticeably cyclical pattern (Table 9). They tend to exceed the 5-year average for 1 or 2 years and then drop below this average for 1 or 2 years. Returns per \$100 feed fed of \$174 in 1993 were slightly below the last 5-year average of \$175.

The returns from feeder cattle vary greatly from year to year. The long-run averages shown in Table 10 indicate that the cattle-feeding business has not been paying average market rates for all resources used by the enterprise. The return of \$145 per \$100 feed fed for the most recent 5-year period (1989-93) was slightly below the previous 5-year period but above the 15-year average of \$142 (Table 9). Above-average skills are needed in buying, selling, and feeding to meet the competition from other uses for time and money on farms with feeder cattle. Identi-

Table 9. Returns per \$100 of Feed Fed to **Different Classes of Livestock**

Year	Farrow- to-finish hogs	Feeder- pig finishing	Feeder- pig produc- tion	Feeder cattle bought	Dairy cow herds	Beef cow herds	Native sheep raised	Yearly price of corn
				dol	ars			
1979 1980 1981 1982 1983	136 138 138 213 141	106 122 115 165 118	194 153 174 237 163	149 111 107 147 134	220 207 200 205 178	183 144 100 115 115	148 131 84 83 78	2.44 2.80 2.98 2.43 3.06
1984 1985 1986 1987 1988	155 166 215 217 152	140 129 178 168 127	170 170 254 232 158	141 121 149 196 150	188 202 210 237 198	105 101 125 168 150	102 130 156 141 115	3.12 2.54 2.01 1.61 2.32
1989 1990 1991 1992	162 206 168 166 174	141 165 128 140 133	167 247 199 167 197	145 162 109 164 143	209 220 188 211 191	144 165 129 142 133	96 98 64 116 95	2.48 2.44 2.41 2.35 2.28
Averages 1979-1993 1979-1983 1984-1988 1989-1993	170 153 181 175	138 125 148 141	192 184 197 195	142 130 151 145	204 202 207 204	135 131 130 143	109 105 129 94	2.48 2.74 2.32 2.39

Table 10. Variation in Returns to Livestock Enterprise Units, 1989 Through 1993

	Farrow- to-finish hogs (per cwt)	Feeder- pig finishing (per cwt)	Feeder cattle (per cwt)	Dairy cattle (per cow)	Beef herd calves sold (per cow) ^a
Returns above c	ost of fee	d and pur	chased a	nimals	
1989		\$10.20	\$18.66	\$1,334	\$144
1990	27.15	15.79	25.74	1,471	203
1991	17.67	6.80	3.97	1,064	88
1992		9.39	25.40	1,398	125
1993	18.76	7.89	17.10	1,178	92
Five-year					
average	\$19.35	\$10.01	\$18.17	\$1,289	\$130
Nonfeed costs, 1	1989 throu	ah 1993			
Direct cash		\$ 4.20°	\$12.68°	\$ 440°	\$ 30°
Other costs	9.76⁵	6.60°	10.73°	618°	175°
Total	\$16.41	\$10.80	\$23.41	\$1,058	\$205
Nonfeed cost for	r future pr	oduction			
Direct cash		\$ 4.35 ^d	\$13.25d	\$ 450	\$ 30
Other costs	16.00	7.00	15.00	800	200
Total	\$23.00	\$11.35	\$28.25	\$1,250	\$230

^a The feed cost for beef herds includes up to \$60 of hay equivalent from salvage

fying cyclical income movements over a 15-year period in the beef-cattle industry is difficult because this industry is more complex and adjusts more slowly

than other livestock enterprises. The returns above feed costs for dairy enterprises of \$1,178 per cow in 1993 were \$111 below the 5year average of \$1,289 (Table 10). These returns indicate that the average dairy enterprise has covered the total estimated cost of production of \$1,058 per cow from 1989 through 1993.

For the beef-herd enterprise, the average returns above the cost of feed for the period from 1989

through 1993 provided a margin over cash costs, but fell short of the return needed to cover all nonfeed costs (Table 10). The implication is that the beef enterprise competes most favorably on farms where the resources of labor, capital, and management are plentiful and have few alternate uses. In the beefcow enterprise, returns above the cost of feed per cow averaged \$130 during the last 5 years. The 1993 returns of \$92 were \$113 below the total costs, estimated at \$205 per cow. The 1993 returns to the beef-cow enterprise were the second lowest during the past 5-year period.

Raising livestock has become more competitive. Average profit margins are narrow. Fewer farmers are willing to stay in business because returns in some enterprises barely cover direct operating costs. Plans for expansion that require large investments for new facilities should be based on an estimated return that is high enough to cover all costs. Fluctuations in livestock returns can involve a risk in low-return years. The estimated nonfeed cost for future livestock production is also shown in Table 10.

Hog enterprises

The information on farrow-to-finish enterprises in Table 11 is based on a sample of 580 enterprises farrowing 10 litters or more per year. Farms were omitted from the sample if the number of hogs purchased exceeded 10 percent of the pigs weaned. This procedure eliminated from the sample those farms with combined farrowing and feeder-pig operations. (Information on feeder-pig finishing enterprises is given in Table 13.) The average size of farrow-to-finish enterprises on all recordkeeping farms was 242 litters in 1993. The 1993 records summarized here for the "all farms" group show that returns of \$18.76 above feed costs per 100 pounds of pork produced were \$2.31 above the 1992 return of \$16.45.

The 5-year average for returns above feed costs per 100 pounds produced was \$19.35 (Table 10). Even the 5-year average can vary significantly because of the wide fluctuations in returns from year to year. Detailed cost records show that an average farmer with existing facilities needed a return above feed costs of \$16.41 per 100 pounds to pay for all nonfeed costs during the past 5 years. The return above all costs during this 5-year period of \$2.94 (\$19.35 minus \$16.41) has led to expansion in the industry. Large integrators have expanded very rapidly. The near future will bring increased pork production and lower hog prices. Producers must assess their own financial situation and production capabilities very closely to determine the amount of risk they can assume if they expand their production with borrowed capital.

The farrow-to-finish enterprise records for 1993 reported in Table 11 were also sorted by the number of litters produced. One group farrowing 350 or

Originage Described includes by J. 360 of Inay equivalent from sarrage originates of annual nonfeed costs are based on enterprise cost studies of operative units from 1989 to 1993.
Includes veterinary costs, utilities, fuel, equipment repair costs, and depreciation, from Crop and Livestock Budgets, Examples for Illinois, 1993–1994 (AE-4700, April 1993).
Includes interest on purchase cost: one-third year for feeder-pig finishing, and one-nall year for feeder cattle.

Table 11. Hog Enterprises, 1993 Averages per Farm

		Farrow- enter	to-fin			
_				or more	S	Feeder- pig
	AI	l farms		oer farn	n pro	duction
Number of farms		580		11		21
Pork produced, pound Pork produced per litter, pound Total returns		70,642 1,944 206,933		211,449 1,910 539,08	0	75,649 688 09,442
Value of feed fed Returns per \$100 of		18,592		290,98		55,660
feed fed Number of litters	\$	174	\$	18	5 \$	197
farrowed		242		634	4	255
per litter		9.67		9.69		10.28
Pigs weaned per litter Litters farrowed per		8.14		8.23	3	8.58
female year		1.87		2.03	3	1.88
female year Number of pigs		15.24		16.50	5	16.44
weaned		1,970		5,21	3	2,188
pounds produced Weight per market		1.9		1.9	9	2.5
hog sold, pound		241		239	9	47
Dulan manifold		per 1	00 po	unds p	roduced	1
Price received— market	\$	46.49	\$	47.2	3 \$	90.08
Total return	\$	43.96 25.20	\$	44.49 24.0		62.30 31.69
Return above feed	\$	18.76	\$		7 \$	30.61
Farm grains, pound Commercial feed,		280		270)	254
pound		_87		_8	<u>6</u>	124
pound		367		350	6	378
Cost per 100 pounds of commercial feed Cost per 100 pounds	\$	15.80	\$	15.0	1 \$	17.15
of concentrates	\$	6.86	\$	6.73	3 \$	8.35

more litters averaged 634 litters. Compared with the average feed cost for all farrow-to-finish enterprises, the feed cost per 100 pounds of pork produced was \$1.18 lower for the 634-litter group. The large producers paid \$15.80 less per ton for commercial feed and had slightly better feed conversion. The prices received for hogs sold by large producers or the net at the farm was 74 cents higher than the net received by all producers.

A summary of the feeder-pig production enterprises is also reported in Table 11. In 1993, the average enterprise in this group produced 255 litters with a return of \$197 per \$100 of feed fed. On an average, 8.6 pigs per litter were weaned and sold at 47 pounds per head. The 1993 average price received per 100 pounds of feeder pigs sold was \$90.08 or \$42.34 per head. The average feed cost per 100 pounds of pork produced (pigs and breeding stock) was \$31.69 for 378 pounds of concentrate.

A substantial profit margin is required to com-

pensate for the risk and detailed management involved in hog production compared with other resource uses. Large-scale hog production in modern confinement facilities requires high capital investments. The future recovery of this capital investment is uncertain. The salvage value of confinement hog facilities is low. In addition, acquiring the managerial skills for the large-scale production of hogs in confinement may discourage any rapid expansion of large hog-producing units. However, the level of profits in recent years has resulted in an increase in production. Pork production for 1994 is projected to be at record levels. Although improvements in production efficiency and some increase in consumer demand have helped offset lower prices due to increased production, future returns will depend to a great extent on whether producers continue to increase production or liquidate some of the breeding herd.

The data on hog enterprises in Table 12 show a detailed breakdown of costs and returns from a group of specialized commercial hog farms for 1991, 1992, and 1993. The value of the feed fed to hogs was more than 75 percent of the crop returns produced on these farms. This intensity of livestock feeding indicates a commitment of major resources to the hog enterprise. The producers in this group probably exercise a higher level of management and use more confinement production facilities than the average

hog producer in Illinois.

The hog enterprise records summarized in Table 12 were sorted by the number of litters produced. The group farrowing fewer than 250 litters averaged 149 litters from 1991 to 1993; the group farrowing 250 or more litters averaged 491 litters during the same period.

The cost data reported in Table 12 have been divided into two categories: cash costs and other costs. This classification of production costs is important when short-term management decisions are being made concerning the volume of production, particularly during periods of low prices.

As reported in Table 12, cash costs of production in 1993 ranged from \$31.74 to \$31.89 per 100 pounds of pork produced, depending on the grouping size. Feed is included as a cash cost although for most producers a major share of the grain is raised on the farm. The readily available alternative cash market for grain makes the raised feed the same as cash.

The other category of costs includes depreciation, labor, and an interest charge on all capital. Part of the labor and interest charge is a cash cost on most farms. The proportion of labor that is hired depends largely on the size of the farm. A one-person farm does not hire much labor, whereas a major share of the labor will be hired on a four-person farm.

While most categories of nonfeed costs did not change much, labor and depreciation increased for both groups of enterprises in 1993. This is a reflection of higher labor costs and increased investment into

Table 12. Average Costs and Returns for Farrow-to-Finish Hog Enterprises by Size of Enterprise, 1991 Through 1993

	į	Jnder 250 litter	'S	25	0 litters or mo	re
	1993	1992	1991	1993	1992	1991
Number of farms	36	41	52	94	92	101
Tillable acres	207 138	231 155	255 155	485 511	504 466	564 495
			per 100 pounds	of pork produced		
Total returns	\$ 44.14	\$ 40.36	\$ 42.88	\$ 44.96	\$ 42.01	\$ 44.46
Cash costs Feed Operating expenses:	\$ 26.35	\$ 25.93	\$ 26.61	\$ 25.18	\$ 24.39	\$ 25.02
Maintenance and power ^a Livestock expenses Insurance, taxes, and overhead	2.95 1.61 .98	3.03 1.63 1.14	3.80 1.99 1.05	3.20 2.36 1.00	3.18 2.38 1.27	3.96 2.24 1.02
Total operating expenses Total cash costs	\$ 5.54 \$ 31.89	\$ 5.80 \$ 31.73	\$ 6.84 \$ 33.45	\$ 6.56 \$ 31.74	\$ 6.83 \$ 31.22	\$ 7.22 \$ 32.24
Other costs Depreciation ^b Labor Interest charge on all capital	\$ 2.58 4.43 2.53	\$ 2.23 4.18 2.54	\$ 1.84 4.33 3.20	\$ 3.30 4.09 2.49	\$ 2.74 3.84 2.51	\$ 2.34 4.28 3.25
Total other costs	\$ 9.54	\$ 8.95	\$ 9.37	\$ 9.88	\$ 9.09	\$ 9.87
Total nonfeed costs	\$ 15.08 \$ 41.43 \$ 2.71	\$ 14.75 \$ 40.68 \$32	\$ 16.21 \$ 42.82 \$.06	\$ 16.44 \$ 41.62 \$ 3.34	\$ 15.92 \$ 40.31 \$ 1.70	\$ 17.09 \$ 42.11 \$ 2.35

^a Includes utilities, machinery, equipment and building repairs, machine hire, and fuel ^b Includes machinery, equipment, and building depreciation.

Enterprises, 1993 Averages per Farm

Table 13. Feeder-Cattle and Feeder-Pig Finishing

•	_	-			
	-	eeder cattle	F		eder-pig finishing
Number of farms		183			158
Total pounds produced	\$1	85,404 05,733 74,033 143	99	1	61,795 51,945 39,185 133
pounds produced		2.0 663 85.85 75.59 1,138	9	5	2.1 51 92.85 45.76 246
	per	100 po	unds p	ro	duced
Total returns	\$	57.03 39.93	9	<u>:</u>	32.11 24.22
Return above feed	\$	17.10	\$	5	7.89
Farm grains, pound Commercial feeds, pound		625 42			294 80
Total concentrates, pound		667			374
Hay, pound		58 444 103 251			a a a

a Data not available

production facilities and equipment. Total nonfeed costs increased 33 cents per 100 pounds of pork produced (3 percent) for the small enterprises and 52 cents (2 percent) for the large enterprises from 1992 to 1993. For both groups, both total operating expenses decreased and total other costs increased. With slightly higher feed costs, the total cost of

production increased from 1992 to 1993 by 75 cents per 100 pounds of pork produced for the group of small enterprises and \$1.31 for the large enterprise group.

The most significant cost difference between the two groups of farms was the feed cost. The average feed cost for 1991, 1992, and 1993 per 100 pounds of pork produced for the large enterprises was \$1.44 lower than it was for the small enterprises. This difference in feed cost was an average of about \$14,000 per farm with the larger enterprises. Differences in the amount of feed used per 100 pounds of pork produced and the price paid for commercial feeds caused this difference in feed costs.

From 1991 through 1993, the returns above all costs averaged 82 cents per 100 pounds of pork produced for the small enterprises and \$2.46 for the large enterprises—a difference of \$1.64. Management practices, such as the choice of building systems, method of transporting hogs to market, type of market used, and on- versus off-farm systems for feed-processing affect the individual cost items reported in Table 12. But the return above all costs should accurately reflect the relative efficiency of the two groups of hog enterprises.

Feeder-cattle and feeder-pig finishing enterprises

Data for 1993 on the feeder-cattle and feederpig finishing enterprises are presented in Tables 13 and 14. These enterprise summaries include weights and values on partly finished animals purchased in

Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 1990 Through 1993

	1993	1992	1991	1990	1990-1993 average
Number of farms	26	28	34	36	31
Tillable acres Hundredweight beef produced Number head @ 475-pound gain equivalents Average weight purchased, pound Average weight sold, pound Price received per 100 pounds sold	536 3,255 685 670 1,164 \$ 76.11	625 3,694 778 673 1,163 \$ 74.12	571 3,069 646 665 1,180 \$ 72.66	610 3,585 755 654 1,133 \$ 76.77	586 3,401 716 666 1,160 \$ 74.92
Price paid per 100 pounds purchased	\$ 87.05	\$ 82.79	\$ 88.11	\$ 86.65	\$ 86.15
		per 100	pounds of beef pr	oduced	
Cash costs Feeda Operating expenses:	\$ 39.99	\$ 38.44	\$ 41.17	\$ 40.09	\$ 39.92
Maintenance and power ^b	3.95 2.68 1.79 5.99	3.25 2.38 1.15 6.09	3.81 2.32 1.30 7.46	3.71 2.25 1.18 8.47	3.68 2.41 1.36 7.00
Total operating expenses Total cash costs	\$ 14.41 \$ 54.40	\$ 12.87 \$ 51.31	\$ 14.89 \$ 56.06	\$ 15.61 \$ 55.70	\$ 14.45 \$ 54.37
Other costs Depreciation ^d Labor	\$ 4.84 2.49 2.33	\$ 3.18 2.66 2.37	\$ 3.76 2.61 2.44	\$ 4.05 2.20 2.65	\$ 3.96 2.49 2.45
Total other costs	\$ 9.66	\$ 8.21	\$ 8.81	\$ 8.90	\$ 8.90
Total all costs	\$ 64.06 \$ 57.05	\$ 59.52 \$ 63.50	\$ 64.87 \$ 45.65	\$ 64.60 \$ 67.23	\$ 63.27 \$ 58.36
Return above all costs	\$ -7.01	\$ 3.98	\$-19.22	\$ 2.63	\$ -4.91

a All grain fed was priced at the average market price for the year. Market values were used for roughage led while protein and minerals were charged at cost. All the feed fed is

assumed to have been marketable.

Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.

Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.

Includes is a charge on the average value of beginning and end-of-year inventories on hand. The rate was 10 percent for 1990, 9 percent for 1991, and 7 percent for 1992 and

Includes machinery, equipment, and building depreciation.

Sales less cost of purchased animals, plus or minus inventory value change. No credit has been calculated for reduced fertility cost when manure is applied to crops.

previous years and on animals purchased during the current year.

The average amount of pork produced per farm from feeder-pig enterprises was 161,795 pounds in 1993 (Table 13). At 195 pounds of gain per head, this figure amounted to 830 head fed per farm in 1993, down from the 859 head fed per farm in 1992.

The return above the cost of feed and purchased animals from 1989 through 1993 averaged \$10.01 per 100 pounds of gain. This return was 79 cents below the \$10.80 of all nonfeed costs for the past 5 years. It is also below the estimated \$11.35 required to cover all costs for future production (Table 10).

Given that a 475-pound unit of gain equals one head of feeder cattle, the average of 185,404 pounds of beef produced per farm in 1993 (Table 13) equals 390 head of feeder cattle per farm. That figure is an increase of 35 from the average of 355 head fed per farm in 1992. The return per \$100 of feed for feeder-cattle enterprises was \$143 in 1993 in comparison with a 5-year average of \$145 and a 15-year average of \$142 (Table 9).

The price paid for feeders was \$4.21 per 100 pounds higher in 1993 than it was in 1992; the price received for cattle sold in 1993 was \$2.18 higher per 100 pounds than the price received in 1992. The average weight of purchased animals was 663 pounds; the average weight of animals sold was 1,138 pounds. Feed cost was \$39.93 per 100 pounds produced in 1993; it was \$39.11 in 1992.

Each 100 pounds of beef produced required 667 pounds of concentrates and 58 pounds of hay. The amount of corn silage used in 1993 averaged 444 pounds; other silage averaged 103 pounds, making a total of 547 pounds. Silage utilization by the feedercattle enterprise has decreased the last 5 years since the 10-year average for the period from 1977 through 1986 reached 906 pounds per 100 pounds of beef produced. The use of 547 pounds per 100 pounds of beef produced in 1993 was the smallest amount fed since 1963. The high initial investment required for many silage feeding operations and a slowdown in capital purchases may denote more reliance on higher concentrate and dry roughage facilities.

These data do not show the wide variation in profits among cattle-feeding programs. The data on Illinois feeder-cattle enterprises in Tables 9, 10, and 13 reflect the composite results of all qualities and ages of cattle fed. The data are heavily weighted, with good-to-choice calves and yearlings as the predominant cattle-feeding system. Most farmers now feed more than one drove of cattle each year to better utilize their fixed investments in mechanized feedlots.

The return above the cost of feed and purchased animals averaged \$18.17 per 100 pounds of beef produced from 1989 through 1993 (Table 10). Dur-

ing this period, returns ranged from \$3.97 in 1991, to \$25.74 in 1990. The returns above feed costs have remained below the estimated costs required to pay for all nonfeed costs for the average cattle feeder in 3 of the last 5 years. The 1992 returns above feed cost of \$25.40 were the third highest since 1975. The 1991 returns were the lowest since 1981.

The data on feeder-cattle enterprises in Table 14 show a detailed breakdown for the period from 1990 through 1993 on cost and returns to produce beef on beef-feeding farms. The farms included had no other livestock. All costs were accounted for either in crops or in the beef-feeding enterprise. The figure for feed costs is based on the assumption that all the grain and roughage fed was produced on the farm and was marketable.

The data show that these farms were finishing an average of 716 feeders each year from 1990 through 1993. The 4-year average total cash cost including feed and interest charged on cattle was \$54.37 per 100 pounds of beef produced. The average total return of \$58.36 for the same period exceeded total cash costs by \$3.99 per 100 pounds produced, or about \$19 per feeder.

Some feeders may be able to discount some of these cash costs for roughage fed and for interest on cattle if they had no market for the roughage or were able to use their own money invested in cattle without paying interest. Other costs of \$8.90 per 100 pounds of beef produced or \$42 per feeder (\$8.90 multiplied by 4.75 hundredweight of gain per feeder) include depreciation, labor, and interest. Adding the other costs to cash costs results in total costs of \$63.27 per hundredweight over the 4-year period.

A number of cattle feeders in Illinois apparently will feed cattle if their return covers feed and cash costs but is short of paying market rates for some nonmarketable roughage, and fixed and overhead costs. But this number is expected to decline.

Farmers' values, goals, and attitudes have been important in maintaining production; but the dictates of the market, technological changes, and shifts in the basic factors of supply and demand continue to cause changes. The return reflected in these averages for the feeder-cattle enterprise suggests that to be profitable, farmers must produce the kind of beef the consumer wants at the lowest possible cost. Even though farms may have nonmarketable feeds, unemployed labor, or fixed capital investments in facilities, these data indicate returns are not consistently high enough to justify the building of new facilities.

Dairy enterprises

The minimum size for a herd included in this analysis was 10 milk cows. The average herd size on recordkeeping farms increased steadily at an average of 1.8 cows per year from 42 in 1970 to 63 in 1982. The herd size has remained steady, between 63 and 69 cows, since 1982.

The return per \$100 of feed fed to dairy cattle in 1993 was \$191. The average for the period from 1989 through 1993 was \$204 (Table 9). In 1993, milk prices per hundredweight decreased 4 percent from 1992 but were 7 percent above prices received in 1991. From 1992 to 1993, beef prices for all weights sold decreased \$1.01 per hundred pounds, while feed costs increased \$3.00 per unit of milk or beef produced.

Dairy farmers have reduced the amount of pasture and dry hay and have increased the amounts of grain and silage fed over the past two decades. Pasture days per animal unit dropped from 145 in 1960, to 50 in 1970, to 8 in 1993. This shift indicates that

Table 15. Dairy Cattle Enterprises, 1993 Averages per

		All .	Effici	ency	
	1	farms	Higha		Low
Number of farms		169	59		57
Number of cows Milk cows dry, percent Animal units in herd		68.5 14.3 128	68.6 14.4 133		63.4 13.7 115
Total returns Value of feed fed Returns per \$100 of	\$16 \$ 8	9,283 8,567	97,168 90,198		128,893 78,694
feed fed	\$	191	\$ 219	\$	164
per cow Total milk produced,	\$	1,178	\$ 1,559	\$	791
100 pounds	1	1,625	12,893		9,314
per cow Pounds of butterfat	1	6,970	18,794		14,690
per cow		633	687		555
pound Pounds of beef	4	3,501	50,885		35,655
per cow Death loss, percent of		635	741		562
pounds produced Price received for:		11.3	8.1		15.7
100 pounds of milk 100 pounds of beef Per unit of milk and beef:	\$ \$	12.53 59.53	\$ 12.63 60.43	\$	12.32 58.65
Feed cost	\$	55.44 322	\$ 50.16 281	\$	61.10 380
minerals, pound		119	118		117
Total concentrates, pound Hay and dry		441	399		497
roughage, pound Corn silage, pound Other silage, pound Pasture days		232 542 433	187 486 347		301 605 538
Pasture days per animal unit		8	11		8
Hay equivalent per cow, ton		7.2	6.8		7.7
poundpound	1	0,284	10,455		10,094

High one-third return above feed per cow exceeds 1,295.
 Low one-third return above feed per cow is below 965.
 1,000 pounds of milk or 100 pounds of beef.

Table 16. Average Milk Production Costs and Returns by Size of Herd, 1991 Through 1993

	40	to 79 cows in I	herd	80 or m	nore cows in h	nerd
	1993	1992	1991	1993	1992	1991
Number of farms	69	81	80	46	52	59
Tillable acres	270 58.2 16,657	269 58.9 16,883	259 57.6 16,789	411 105.1 17,494	426 106.2 17,807	522 107.9 17,056
			per 100 pound	s of milk produced		
Price received	\$ 12.79	\$ 13.25	\$ 11.82	\$ 12.53	\$ 13.07	\$ 11.90
Cash costs Feed Operating expenses:	\$ 6.65	\$ 6.35	\$ 6.23	\$ 6.43	\$ 6.08	\$ 6.02
Maintenance and power ^a Livestock expense Insurance, taxes, and overhead	1.30 1.27 19	1.20 1.18 <u>.21</u>	1.17 1.13 26	1.28 1.28 .22	1.28 1.12 .21	1.35 1.13 .26
Total operating expenses Total cash costs	\$ 2.76 \$ 9.41	\$ 2.59 \$ 8.94	\$ 2.56 \$ 8.79	\$ 2.78 \$ 9.21	\$ 2.61 \$ 8.69	\$ 2.74 \$ 8.76
Other costs Depreciation ^b Labor	\$.83 1.71 1.23	\$.73 1.66 1.22	\$.61 1.59 1.34	\$.74 1.48 1.00	\$.63 1.36 .97	\$.67 1.49 1.30
Total other costs	\$ 3.77	\$ 3.61	\$ 3.54	\$ 3.22	\$ 2.96	\$ 3.46
Total nonfeed costs	\$ 6.53	\$ 6.20	\$ 6.10	\$ 6.00	\$ 5.57	\$ 6.20
Total all costs	\$ 13.18	\$ 12.55	\$ 12.33	\$ 12.43	\$ 11.65	\$ 12.22
Return above all costs	\$39	\$.70	\$51	\$.10	\$ 1.42	\$32

 $^{^{\}rm a}$ Includes utilities, machinery, equipment and building repairs, machine hire, and fuel b Includes machinery, equipment, and building depreciation.

significant pasture days are a thing of the past on nearly all dairy farms in this sample.

The dairy herds in Table 15 were subdivided into two groups according to their efficiency as measured by returns above the cost of feed per cow. In comparison with the low-efficiency group, the high-efficiency group had more cows in the herd, and 97 percent higher returns above feed per cow. Returns above feed per cow for the high-efficiency group were \$1,559 and \$791 for the low-efficiency group. For the high-efficiency group, two factors were most significant: 28 percent higher milk production per cow—an average of 18,794 pounds, compared with an average of 14,690 pounds for the low-efficiency group—and an 18 percent lower feed cost per unit of milk and beef produced.

The average return above feed costs per cow for all dairy herds was \$1,178 in 1993 (Table 15). This figure compares with the 5-year average of \$1,289 per cow (Table 10). The 5-year average return above feed cost required to pay market prices for all nonfeed costs is estimated to be about \$1,058 per cow. The estimated return above feed costs currently required to attract new investments for dairy herds is about \$1,250 per cow. Although the number of dairy herds has decreased, their size and efficiency have increased, and they have continued to increase the milk supply. Normal depreciation and wear-and-tear will soon require the reinvestment of greater amounts of capital in some of these businesses.

The data in Table 16 on dairy enterprises show a detailed breakdown of milk production costs and

returns for dairy farms by the number of cows in the herd in the period from 1991 through 1993. The farms included had no other livestock. All costs were accounted for either in crops or in the dairy enterprise. The total costs for the dairy enterprise were reduced by the amount of income derived from an inventory increase in the pounds of beef produced or from sales, which was valued at the average price received for all weights of dairy animals sold from 1989 through 1993. The residual costs, amounting to 86 percent of the total enterprise costs, were then considered as the net cost of producing milk.

The differences between the herds containing 40 to 79 cows and those containing 80 or more cows for the period from 1991 through 1993 appear to be narrowing. This is probably due to the smaller, lower-efficiency herds exiting the dairy enterprise. For the 3-year period, the milk price for the larger herds averaged 16 cents less, while total nonfeed costs per 100 pounds of milk sold were 36 cents lower. The major cost difference was 21 cents less for labor on the large farms.

In 1993, feed costs per 100 pounds of milk produced increased for both groups. The cost of feed averaged about 50 percent of total production costs in Illinois dairy enterprises. Total nonfeed costs increased 5 percent for the small dairy herds and 8 percent for the large dairy herds when compared with costs in 1992. The total cost of producing 100 pounds of milk in 1993 was \$13.18 for the small herds and \$12.43 for the large herds. The average price received for milk in 1993 decreased for both groups of dairy

Table 17. Beef-Cow Enterprises, 1993 Averages per Farm

	•		
	All farms	Calves sold	Calves fed out
Number of farms	226	79	55
Number of cows in herd Animal units in herd Total pounds produced Beef per cow in herd,	44 67 32,981	44 56 21,056	46 76 50,283
pound	750	478	1,093
Total returns Value of feed fed Returns per \$100 of	\$22,465 \$16,944	\$15,287 \$11,731	\$32,736 \$22,613
feed fed Returns above feed	\$ 133	\$ 130	\$ 145
per cow Death loss, pound Percent of pounds	\$ 125 1,716	\$ 80 1,610	\$ 220 1,635
produced	5.2	7.6	3.2
Weight per market animal sold, pounds Price received per 100 pounds sold —	809	514	1,074
market animal	\$ 78.59	\$ 88.64	\$ 73.00
	per '	100 pounds p	roduced
Feed cost Grain, pound Protein and minerals,	\$ 51.37 258	\$ 55.71 135	\$ 44.97 290
pound	_36	_32	_32
Total concentrates, pound Hay and dry	294	167	322
roughage, pound	691	930	497
Corn silage, pound	358	256	338
Other silage, pound Pasture days	67 30	37 43	79 20
Pasture days per	30	40	20
animal unit	150	164	137
cow, tons	5.9	5.0	6.2

enterprises. The lower milk prices and higher costs resulted in returns above total production costs of a negative 39 cents and 10 cents, respectively, for both the small and large enterprise groups in 1993. The returns above all costs for the large-herd group have averaged per 100 pounds of milk produced 47 cents more than the returns for the small-herd group from 1991 through 1993. This amounts to \$8,222 more in returns per farm per year for herds in the large-size group. Due to lower milk prices and higher costs, returns to dairy farmers declined in 1993 and were below the average for the last 5 years.

Beef-cow herds

The minimum size for a beef-cow herd included in Table 17 was 10 cows. Farms combining cow herds and purchased feeder cattle were not included. In addition to all farms, Table 17 gives an analysis of cow herds in which calves were sold at weaning time and compares them with cow herds in which calves were finished to slaughter weights. From 1956 through 1969, the average size of the herd on all farms ranged from 25 to 30 cows. From 1969 to 1973, the average

Table 18. Sheep Enterprises, 1993 Averages per Farm

	Native flocks
Number of farms	38
Wool and mutton produced, pound	6,629 \$3,124 \$3,276 \$ 95
Percent lamb crop	148 623 9.4
Price received	\$50.78 \$49.42 360 543 0 20
Hay equivalent, pound	1,028

grew to about 40 cows per herd and remained stable through 1989. The herd size increased to 44 cows in 1993. Most Illinois farmers who maintain a beefcow herd do so as a supplemental enterprise to market nonsalable feeds and labor.

The return per \$100 of feed fed to beef-cow herds averaged \$133 in 1993. The return for the 5-year period from 1989 through 1993 averaged \$143, which is above the 15-year average of \$135 for the period from 1979 through 1993 (Table 9). Beef prices received in 1993 averaged \$78.59 per hundredweight, an increase of 24 cents over beef prices in 1992. Feed costs per 100 pounds of beef produced decreased by only 2 cents to \$51.37 in 1993.

Since 1989, the return above feed cost per cow for the average farmer to feed out calves rather than to sell them at weaning has been about \$95 per cow. Additional returns are needed for the added costs of labor, buildings, and the capital required to feed out the calves. In 1993, return above feed cost for feeding calves to market weight was \$140 more per cow than for selling calves.

Sheep enterprises

Sheep production is a minor enterprise on Illinois recordkeeping farms. The minimum size of enterprise in Table 18 is 3 animal units. One animal unit of sheep is defined as 750 pounds, liveweight. The return per \$100 of feed fed in 1993 was \$95 for native flocks. The returns per \$100 of feed fed have been less than \$100 for 4 out of the last 5 years. The pounds of wool and mutton produced per farm have remained fairly constant for the past 10 years. The price received for sheep increased from \$48.51 per hundredweight in 1992 to \$50.78 in 1993, while feed costs per hundredweight produced increased by \$6.94 to \$49.42. Most Illinois farmers who keep sheep do so as a supplemental enterprise in order to market nonsalable feeds and labor.

Costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of Illinois farms are reported in Tables 19 to 27a.

Table 19. 1993 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grein Ferms with Soil Retines from 86 to 100

Donne in pire (total parce)	180,330	240-700	2001100	2011 JON	Your Farm	A	240-700	100
Range III size (total acres) Management retrime	200	3	3			2	1 ow 25%	7 33 Hinh 25%
Number of farms	26	419	241	140		856	105	105
Total acres in farm	277	222	926	1,603		838	532	929
Acres of tillable land	568	228	943	1,549		608	512	88
Soil rating on tillable land	85	85	85	85		92	6	6
Total months labor	4.6	4.28 4.28	16.7	4.6		15.7	12.7	12.9
Months of filled labor Baef produced hindredweight	ţc	į.	9 er	5.4		† 0	<u>.</u>	-
Pork produced, hundredweight	0	10	0	8		۰	-	
Dairy cows, number	0	0	0	0		0	0	0
Crop returns	95 95	205 330	354 605	582 437		201 073	167 674	255 75
Livestock returns above feed	9	47	276	152		126	16	78
Custom work	1,130	2,051	3,533	6,198		3,086	1,635	2,416
Other farm receipts	876	1,745	2,290	3,840		2,184	1,664	2,270
Value of farm production	896'86	209,182	360,794	592,626		307,370	170,989	260,514
Cres expense	20 072	42 408	72 590	117 824		62 171	A2 5.44	AE 794
Power and equipment	17,549	32,366	53.074	83.581		45,897	35,068	33,026
Building and fence	5,946	8,895	13,778	20,930		12,045	10,671	7,749
Labor	17,883	20,187	26,632	40,074		25,103	20,267	20,300
Livestock services and supplies	69	214	218	225		202	502	262
Taxes	5,646	11,295	18,797	30,069		16,108	10,656	12,369
Insurance and miscellaneous	3,330	5,705	8,392	13,049		7,507	5,429	5,89
Interest on nonland capital	5,580	11,353	18,881	33,151		16,660	11,490	12,15
Land charge or net rent	27,330	56,783	95,254	157,106		82,095	52,013	63,63
Total nonfeed cost	104,207	190,504	307,603	496,005		26/,/92	188,339	דרו,רטב
Capital account adjustment	678	1,438	200,	2,785		000,1	746 776	2,309
management returns	(6)4(4)	£0,111	2 1 1	23,400		41,448	(0///01)	201,19
of nonfeed costs	0.95	1.10	1.17	1.19		1.15	0.91	1.3
Farm production per man	104,373	196,382	258,663	291,465		234,871	162,124	242,607
Financial summary								
Cash operating income	102,793	207,239	348,199	566,441		298,840	180,394	239,753
Inventory change	2,300	400,00	32,770	00,030		(47 405)	(4,000	20,00
Accts, receivable (riet criange)	(0,850) 1030	(14,923)	(18,000) 504)	(29,201)		(17,103)	(15,000)	480,
Less purchased feed	30	135	795	5.513		1.192	123	214
Less purchased livestock	0	175	288	455		241	176	136
Adjusted gross farm income	98,968	209,182	360,794	592,626	100	307,370	170,989	260,514
Cash operating expense	45,828	90,155	149,617	246,303		129,534	90,569	94,174
Accts payable (-il increased)	(267)	(4,001) (7,007)	(20) (+)	(007'0)		(5,00)	(01810)	(36,929
Farm-produced inputs	103	253	570	772		417	134	450
Total operating expense	46.245	87.268	146,000	238.708		125,888	88,256	90,461
Income before depreciation	52,723	121,912	214,792	353,915		181,479	82,734	170,05
Less depreciation	7,755	16,808	27,808	44,541		23,848	18,718	16,311
Capital account adjustment	825	1,439	1,553	2,785		1,651	5/4	2,385
Net farm income	45,793	106,543	188,537	312,159		159,282	64,590	156,13
(operator's snare) Labor & mgt. income per operator	12,827	37,911	71,175	99,459		55,701	671	79,78
	6		1			1	•	

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well-drained prairie soils.
Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 19a. 1993 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Northern and Central

			561 560	3		}	20.5
						Low 25%	High 25%
88	419	241	140		856	105	105
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
35.10	33.13	32.21	32.66		32.73	35.55	30.83
24.54	25.70	26.41	25.17		25.74	27.79	23.52
18.36	18.47	18.36	18.22		18,35	19.80	17.75
78.00	77.30	76.99	76.06		76.82	83.14	72.10
44.9	4.62	3.65	3.02		3.84	5.18	4.01
17.86	14.92	14.86	13.56		14.54	16.15	13.23
8.76	5.85	4.73	4.60		5.15	9.14	4.36
9.50	8.02	7.87	7.93		7.97	8.40	7.47
23.02	25.70	25.19	24.85		25.21	29.67	23.00
65.58	59.11	56.30	53.96		56.71	68.54	52.07
13.07	10.01	8.77	8.13		80.6	11.62	8.72
3.20	1.51	.53	1.50		1.55	2.33	0.79
5.96	4.43	4.31	3.89		4.25	6.91	2.70
22.22	15.95	14.61	13.51		14.88	20.85	12.22
4.64	32.81	20.84	14.68		23.89	34.94	29.28
2.19	3.39	/.41	11.19		7.13	4.70	2.73
66.83	36.20	28.25	25.87		31.02	39.61	32.01
8.6	0.12	4.0	71.0		41.0	0.17	0.08
26.51	33.43	33.30	36.67		34.25	37.96	27.84
14.71	15.65	14.74	14.26		14.90	18.74	13.23
302.33	308.19	3,6,5	3/5.99		3/3.14	327.69	403.22
20.02	27.00	00.09	2000		270.10	20.02	21.0
389.43	341.59	326.27	320.20		23.00	368.0	317.0
(16.50)	36.07	58.07	64 17		50 95	192 701	07 40
(anima)				-		(21.20)	
00	529	927	883		533	301	268
68,931	131,729	225,267	368,444		192,671	109,603	164,511
11,019	28,366	49,751	99,266		44,848	32,409	27,134
9,423	16,212	21,467	38,563		20,903	23,819	11,133
4		99	153		8	5	4
07,332	1,201,843	2,116,748	3,491,236		1,824,336	1,155,844	1,413,997
90,730	9/4/954,	2,414,228	6,888,55		2,083,3/3	1,322,023	1,017,089
, v	7,430	, t,	לילא לילא		, 1 0	404,4	7,400
ř	5	3	\$		8	3	?
50.0	48.0	47.0	18.1		47.7	50.1	47.4
24.2	45.5	46.2	44.3		45.3	42.5	46.8
0.1	0.4	9.0	9.0		9.0	8.0	0.3
0.0	0.0	0.0	0.0		0.0	0.0	0.0
5.4	5.0	4.9	5.4		5.1	5.3	4.7
0.	0.1	0.3	0.1		0.2	0.3	0.1
:	!	į					
4	147	<u>2</u>	149		149	132	159
84	49	49	S S		49	4	ଊ
9	47	£	49		20	₹	3
	56,931 11,019 443 4443 696,738 696,738 50.0 50.0 0.1 0.0 141 141		28.366 28.366 16.712 1.261.843 2.1.438.479 2.51 48.0 48.0 48.0 48.0 48.0 0.0 0.0 14.7 14.7 47.9 47.9 47.9 47.9 47.9 47.9 47.9 4	28.366 49,751 16,212 21,467 16,212 21,467 51 22,116,748 1,438,479 2,414,228 51 2,493 2,414,228 51 46,2 60 40.0 60 60 60 60 60 60 60	28,366 49,751 28,366 49,751 1,212 21,467 1,238,479 2,414,228 2,433 2,414,228 2,433 2,414,228 2,433 2,414,228 6,49 6,2 6,0	28.366 49,751 99,266 16,212 21,467 349,563 16,212 21,467 349,563 1,261,843 2,116,748 3,491,236 1,438,479 2,414,228 3,998,551 2,494 48.0 47.0 48.1 48.0 47.0 48.1 60.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 0.0 0.0 60.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28.36

Table 20. 1993 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois

Management returns 40 244 189 600 or 1199 Over 1199 Vour Farm All Farms Low 25% High 25% Notation of state of large and stat	Grain Farms with Soil	il Ratings fr	Ratings from 56 to 85						
Columbia	Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms		0-799
Columbia	Management returns							Low 25%	High 25%
224 558 998 1,680 796 554 576 576 77 78 77 78 77 78 77 78 77 78 77 78 77 78 77 78 77 78 77 78 78 77 78	Number of farms	4	284	131	105		290	7	71
254 567 910 1.508 796 796 796 796 905 905 905 905 905 905 905 905 905 905	Total acres in farm	272	288	896	1,680		828	554	929
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Acres of tiliable land	554	257	910	1,508		96	505	653
1,2,1	Soil rating on tillable land	8,7	8,	9,	99		= ;	800	200
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Norths of hired labor	- a	- 5. - 0.	ر د د د د	2.5		15.1	13.6	9.7
Start	Reef produced bundredweight	-	io	14	99		j N	<u>:</u> -	<u>-</u> C
B3,171 B3,351 306,328 487,591 262,008 142,469 2	Pork produced, hundredweight	0	0	0	20		0	0	0
ction 83,171 183,351 306,328 487,591 262,008 142,469 2 ction B5,037 1805 3,589 5589 3,027 1,909 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 1,970 2,45 2,48 2,57 2,172 2,48 2,57 2,172 2,48 2,57 2,172 2,48 2,57 2,172 2,48 2,172 2,48 2,172 <	Dairy cows, number	0	0	0	0		0	0	0
Seed 1,123	Dollar returns per farm								
1,232	Crop returns	83,171	183,351	306,328	487,591		262,008	142,469	239,731
1,223 2,002 3,548 3,210 2,102 1,909 1,90	Livestock returns above feed	72	4)	47	4/3		102	(E)	2
1970 1985	Custom work	1,233	2,092	3,548	5,589		3,027	1,909	2,334
Big of a continue c	Other farm receipts	295	1,865	2,200	3,210		2,102	1,970	1,435
19,959 40,431 69,926 112,209 59,326 39,526 5,110 7,689 25,859 98,905 45,928 35,573 5,110 2,689 13,317 19,905 45,289 33,775 5,110 2,689 13,317 11,010 8,245 5,110 2,203 14,11 144 23,383 10,015 24,583 10,015 24,233 10,015 14,996 23,583 10,015 14,996 23,583 10,015 26,485 14,946 9,587 14,996 36,688 43,151 21,237 14,996 36,986 43,151 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 14,996 36,986 17,102 11,010 36,574 36,986 14,996 36,986 14,986 36,986 14,986 36,986 14,986 36,986 14,986	Value of farm production	85,037	187,303	312,124	496,863		267,240	146,344	243,502
supplies 17,889 32,677 52,899 13,311 19,366 11,010 8,245 35,572 52,899 13,311 19,366 11,010 8,245 35,572 52,899 13,311 19,366 11,010 8,245 37,772 14,4896 23,583 17,772 5,485 11,010 8,422 37,772 5,485 11,010 8,422 11,010 8,422 11,010 8,422 11,010 8,245 11,010 8,245 11,010 8,422 11,010 8,422 11,010 8,432 11,010 8,431 11,010 10,88 10,015 11,010 1	Dollar costs per larm	000	10 101	900	440.000		3000	302.00	40 405
supplies 18840 7,5897 33,775 15,926 11,010 8,245 8 8 33,775 11,010 8,245 8 11,010 8,245 8 11,010 8,248 8 13,715 15,939 11,010 8,248 8 13,715 15,910 12,874 9,589 12,0139	Crop expenses	4,838	5,50	03,600	12,209		39,320	38,320	54,56
supplies 157 141 144 233 157 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,325 1510 21,324 22,020 47,105 1510 21,345 25,372 26,135 177,244 27,145 27,245 28,372 26,175 27,248 27,249 27,249 21,132 22,020 21,132 21,324 22,225 21,325	Power and equipment	7,000	32,077	22,638	92,000		45,920	20,00	52,739
supplies 1577 127 24,000 14,896 225 1687 25,898 12,874 3,938 12,874 3,938 12,944 3,938 10,015 14,944 212,940 12,940 12,940 12,940 12,940 14,944 9,597 14,947 14,	Duilding and Jence	0,0	706.00	000 70	32,75		20,010	24.50	0,000
4,223 9,200 14,896 23,583 12,81 9,727 5,485 9,368 10,015 22,020 47,106 12,910 7,727 14,944 9,597 10,015 22,020 47,106 76,056 12,502 66,698 43,151 173,244 2,734 2,273 43,744 2,273 43,744 2,273 17,324 2,273 17,324 17,324 2,273 17,324 1	Livestock services and supplies	75.	141	144	02.0		167	245	122
1,000 1,00	Taxes	4 223	000	14 896	23.583		12 874	998	9 7 26
ital 22,000 47,106 18,015 28,256 14,944 9,597 10,015 18,015 12,002 66,688 173,248 173,259 173,219 241,704 280,149 212,387 129,463 2 2,273 11,10 129,148 18,875 32,609 17,102 11,10 129,60 246 119,815 129,61 11,513 11,01 12,22 11,01 11	Insurance and miscellaneous	3069	5,661	9.472	12,910		7.777	5.485	6.097
22,020 47,106 76,056 125,032 66,698 43,151 173,244 279,483 439,764 243,764 173,244 279,483 439,764 243,764 1,392 172,283 172,283 172,583 172,583 172,583 172,583 172,583 172,583 172,583 172,583 172,583 172,583 172,219 241,704 280,149 212,387 129,463 212,387 129,463 213,013 13	Interest on nonland capital	4.933	10,015	18.015	28,256		14 944	9.597	11,109
nt 420 153244 279,443 439,164 24,743 172,558 172,558 172,549 1,745 2,273 2,273 2,577 2,578 172,558 173,000 1,000	Land charge or net rent	22,020	47,106	76,056	125,032		869'99	43,151	54,307
nt (10,740) 1,745 2,273 1,392 789 0.88 1.08 1.12 1.12 1.13 1.19 (25,448) 0.88 1.72,19 241,704 280,149 212,387 129,463 2 191,188 186,373 314,411 498,752 268,097 159,906 246 600 809 1,7102 (11,998) 1,811 222 (11,998) 1,812 222 (11,998) 1,814 209 (11,859) (19,885) (28,927) (11,998) 1,814 229,818 212,387 129,463 212,387 129,463 212,387 129,463 212,387 129,463 212,387 129,463 212,387 129,463 212,387 129,463 212,387 129,463 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 212,387 213,387 212,387 213,387 212,387 213,387 21	Total nonfeed cost	96,198	173,244	279,483	439,164		242,453	172,583	184,578
(16,740) 15,100 34,384 59,972 26,179 (25,448) 0.88 1.08 1.12 1.12 1.13 1.10 0.85 84,265 172,219 241,704 280,149 212,387 129,463 2 91,188 186,373 314,411 498,752 268,097 159,906 2 1376) 13,013 18,875 23,609 1,7102 (1,981) 18,987 22,22 ch	Capital account adjustment	420	1,041	1,745	2,273		1,392	789	930
0.88 1.08 1.12 1.13 1.10 0.85 1.24.704 280,149 212,387 129,463 2.12,387 129,463 2.12,387 129,463 2.12,387 13,013 13,013 18,875 32,609 17,102 17,102 17,102 11,513 18,875 32,609 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 17,102 18,393 428 17,789 6,119 187,333 428 17,889 11,811 222 18,395 11,811 22,395 11,	Management returns	(10,740)	15,100	34,384	59,972		26,179	(25,448)	59,553
84,265 172,219 241,704 280,149 212,387 129,463 2 considerable (5,439) (11,859) (11,8	Farm production per \$1.00	88 0	60	1 13	1 13		7	0.85	1 32
e 91.188 186.373 314.411 498.752 268.097 159.906 2 10.346.31	Cloud and an all and an all and all all and all all and all and all and all and all and all all and all all all and all all and all all all and all all all all all all all all all al	20.5	1000	100	2 7 7 000		0 000	400 469	100
income 91,188 186,373 314,411 498,752 268,097 159,906 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Farm production per man	84,265	812,211	241,704	280,149		786,212	128,403	220,193
Control of the cont	Financial summary	04 400	196 372	214 411	752		700 930	150 006	231 BOB
Columb C	loveptopy change	(376)	13,073	12,41	32,725		17,102	(806)	26,26
k 246 600 809 421 189 mone E5,037 187,303 31.789 6,119 1,181 1,881 sased) 44,199 83,657 142,401 229,513 426,863 267,244 146,344 222 sased) (909) (2,609) (5,650) (10,231) (1,231) (4,488) (1,251) n 44,173 166,176 17,747 218,827 117,489 82,788 100 n 41,730 106,176 174,393 22,033 149,754 63,546 16,356 n 41,173 106,176 174,393 22,033 14,754 63,546 16,356 n 42,009 10,41 1,743 2,273 1,392 789 18,356 n 42,009 90,886 14,186 17,747 44,189 45,191 45,191 45,519 n 42,009 17,747 2,88 6,04 6,56 6,56 6,56 6,56	Accts, receivable (net change)	(5,439)	(11,859)	(19,685)	(28.927)		(16,431)	(11,513)	(13,824)
k 393 428 1,789 6,119 1,811 222 nne B5,037 187,303 312,139 466,663 267,244 145,344 146,344 145,344 140,744 143,344 140,744 143,344 143,444 143,744 143,344 145,744 145,144 145,144 145,144 145,144 145,144<	Farm products used		246	,009	808		421	189	357
k 0 42 272 260 133 15 14 15 16 17 16 17 14 15 16 17 14 18 16 17 14	Less purchased feed	393	428	1,789	6,119		1,811	222	1,022
B5,037 187,303 312,401 466,663 267,224 146,344 34	Less purchased livestock	0	42	272	260		133	15	41
ased) (41) (162) (1633) (16,231) (1,231) (1,25	Adjusted gross farm income	85,037	187,303	312,139	496,863		267,244	146,344	243,502
Columbia	Cash operating expense	96.4	2000	142,401	25,515		828,121	2,470	04,10
43.307 81,126 13,134 218,327 117,489 82,198 183,198 18,336 18,336 18,336 19,336	Accts payable (+if increased)	(909)	(2,003)	(0,00)	(10,231)		(4,400) (358)	(102)	(3, 139)
n 43,307 81,126 137,747 218,827 117,489 82,798 82,798 143,730 106,176 14,393 278,037 149,754 63,546 1 18,336 16,340 1,392 1,392 18,336 11,392 17,797 35,629 50,653 74,418 45,194 6,040 17,705 33,289 6,04 6,56 6,56 6,70 6,34 2.51	Farm-produced inputs	9	242	579	778		408	183	357
n 41,730 106,176 174,393 278,037 149,754 63,546 1 st 420 1,041 1,745 23,629 789 <td>Total operating expense</td> <td>43,307</td> <td>81,126</td> <td>137,747</td> <td>218,827</td> <td></td> <td>117,489</td> <td>82,798</td> <td>84,394</td>	Total operating expense	43,307	81,126	137,747	218,827		117,489	82,798	84,394
8 141 16.381 28.238 43.061 23.569 16.336 16.336 16.336 16.336 16.336 16.336 16.336 16.336 16.336 16.336 17.345 17.	Income before depreciation	41,730	106,176	174,393	278,037		149,754	63,546	159,108
1 420 1041 1.745 2.2773 1.382 7.89 46.000 1.7797 35.629 50.653 74.48 45.143 9.519 9.519 1.7797 35.629 52.815 71,748 45.143 9.519 (7.257) 8.8 6.04 6.56 6.04 6.58 6.04 6.04 6.04 6.04 6.04 6.04 6.04 6.04	Less depreciation	8,141	16,381	28,238	43,061		23,569	18,336	16,214
34,009 90,836 14,900 231,249 121,578 96,000 17,797 35,629 50,653 74,418 45,143 9,519 71,748 43,191 (7,251) % 2.88 6.04 6.56 6.70 6.34 2.51	Capital account adjustment	450	1,041	1,745	2,273		1,392	68/	630
Fig. 2.88 6.04 6.56 6.70 6.34 2.51	Net term income "	34,009	90,836	147,900	237,249		12/,5/8	6,000	143,523
% 2.88 6.04 6.56 6.70 6.34 2.51	Labor & mott. income per operator	7,056	33,283	52,815	71,748		43,191	(7,257)	966,17
	Rate eamed on investment, %	2.88	6.04	6.56	6.70		6.34	2.51	9.01

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils.
Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

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Table 20a. 1993 Average Operati	

Management returns				500		SHIP IN	87-148	S.
2000							Low 25%	High 25%
Number of farms	4	284	131	105		560	71	71
Some costs and returns per tillable acre	_							
Soil fertility		31.35	32.49	32.26		32.03	35.16	29.09
Pesticides	25.74	24.13	25.71	25.21		24.97	25.19	21.46
Seed and other crop	19.16	17.06	18.68	16.94		17.50	17.85	15.93
Crop total	78.50	72.54	76.88	74.41		74.50	78.20	66.48
Light vehicle and utilities	9.25	5.10	4.07	3.32		4.29	5.25	4.67
Machinery repairs, supplies	19.84	14.83	13.61	14.03		14.34	18.13	12.53
Machinery hire	6.6	5.98	5.26	6.03		5.90	8 22	3.62
Fuel and oil	7.80	7.78	8.05	7.32		7.69	8.72	6.97
Machinery depreciation	23.57	24.95	27.12	24.87		25.47	30.06	22.32
Power and equipment total	70.36	58.63	58.12	55.57	The take the second	57.68	70.38	50.11
Drying and storage	8.86	7.56	9.05	7.86		8.10	7.83	6.83
Building repair	2.79	89	1.66	1.30		1.61	230	131
Building depreciation	8.45	444	3.93	3.68		4.12	6.18	2.50
Ruilding total	20.10	13.80	14.63	12.84		13.83	16.31	10.65
Labor unpaid	20.00	33.43	21.36	15.92		24 82	37.00	28.85
Labor, hired	4.10	3.05	6	6.48		200	533	234
Labor total	74.10	36.47	27.28	22.40	200	29 88	40.32	30 74
Value of feed fed	000	90.0	0.16	0.21		0.14	0.10	0.02
Capital purchases	28.07	31.38	33.03	30.87		31.57	34.16	26.06
Operator interest paid	15.40	16.07	16.92	16.34		16.38	17.44	14.26
Crop returns	327.12	328.98	336.80	323.34		329.02	281.87	366.92
Livestock return above feed	0.28	(0.01)	0.05	0.31		0.13	(0.01)	0.0
Value of farm production	334.46	336.07	343.17	329.48		335.59	289.54	372.70
Total nonfeed cost	378.36	310.85	307.29	291.22		304.47	341.45	282.51
Management returns	(42.25)	27.09	37.81	39.77		32.87	(50.35)	91.15
Farm investment								
Livestock inventory	237	<u>8</u>	652	2,186		620	125	O
Grain inventory	54,575	108,285	187,884	282,002		155,641	83,185	142,339
Remaining cost in								
machinery and auto	10,402	25,441	56,473	84,933		42,781	28,825	25,724
buildings and fence	6/6'/	14,983	22,774	34,926		20,045	16,840	12,117
soil remility	8	/9	981	X		3	2	20
Value of land (current)	489,333	1,046,801	1,690,143	2,178,482		1,482,167	958,923	1,206,820
Total farm investment	502,551	1,195,649	911,858,1	3,182,5/2		855,107,1	300,880,1	90,786,1
lotal investment per acre	90,7	2,033	2,023	C88'L		186,	38	20,7
Machinery Invest, per IIII, acre	4	₹	70	8		ŧ	٥.	S,
Com and com silvae	47.0	47.0	47.0	707		707	500	137
Southeans Southeans	20.0	42.4	9 4	500		9	2 2	45.1
Wheat	40	1.2	5.5	- 6		, - G	3.0	- -
Other small grain	ic	, C	ic	c		: -		0
Diverted acres	i c	- 6	2.2	. <u>.</u>		6		5.5
All hav and pasture	7	0.5	9.0	90		90	90	0.3
Crop vields, bushels per acre		}	}			}	:	1
Com	123	129	130	128		129	113	141
Soybeans	₹	\$	4	5 4		3	45	84
Wheat	છ્ઠ	47	41	4		44	43	2

Table 21. 1993 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois

Hog Farms with Soil	Ratings from	Ratings from 86 to 100						
Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns Number of farms	13	35	37	8		115	21-27 25	31-39
Total acres in farm	188	381	630	1,130		635	644	847
Acres of tillable land	180	363	602	1,051		299	298	792
Soil rating on tillable land	83	6	6	8		91	8	91
Total months labor	14.5	18.5	27.2	42.5		27.1	24.1	36.1
Months of hired labor	€. •	8.58 8.58	12.7	25.5		12.9	9.6	20.4
Book produced, hundredweight	2000	4 158	6 957	394		6.405	4 710	10,673
Dairy cows, number	i	-	0	0		0	-	0
Dollar returns per tarm	SE 476	104 664	000 000	254 704		300 500	404 027	270 EA2
Crop returns Livestock returns above feed	52,955	81,955	132,154	201,081		125,904	88,354	239,755
Custom work	229	1,181	549	5,271		1,937	2,626	3,529
Other farm receipts	557	952	4,538	5,268		3,187	4,634	2,499
Value of farm production	108,916	205,643	347,234	566,325		334,355	286,652	524,327
Condition of the Condit	40 000	37 506	42 042	76 700		44.012	42 446	60.203
Dower and equipment	22,623	37,079	61,667	104 197		60,09	56,637	84,733
Building and fence	10,270	12.049	24.367	43,193		23,935	21,101	41,132
Labor	21.937	29,057	43,998	80,896		46,582	38,279	81,300
Livestock services and supplies	4,622	11,530	16,184	26,294		16,098	12,302	30,096
Taxes	4,864	8,180	15,779	23,096		14,141	13,302	20,800
Insurance and miscellaneous	3.944	5,513	11,689	18,427		10,691	9,508	13,264
Interest on nonland capital	9,242	15,611	27,243	53,214		28,443	23,386	47,104
Land charge or net rent	18,788	36,753	60,015	106,387		60,372	60,642	76,540
Total nonfeed cost	110,133	183,367	304,853	532,501		305,254	278,602	455,269
Capital account adjustment	535	312	491	28		329	274	171
Management returns	(681)	22,588	42,872	33,882		29,430	8,323	69,229
Farm production per \$1.00	0	,	,	,		,	5	
or nonfeed costs	0.03	21.1	41.1	2.5		1.10	20.00	1.15
Farm production per man	90,137	133,036	153,055	26,790		908,74	142,708	106,471
Financial summary		:						
Cash operating income	174,318	281,448	472,365	767,339		45/,51/	380,353	20,0218
Acete receivable (not obseed)	2004	(6,45)	(45,50	(22,733		(13,305)	(16,331)	(15,348)
Farm products used	184	(5,5)	744	1344		797	776	11.
l ess purchased feed	57.298	67.773	109 177	158,699		103.630	72.422	160,598
Less purchased livestock	7,147	16,782	25.277	54,289		28,210	22,761	29,980
Adjusted gross farm income	108,916	205,643	347,247	566,348		334,365	286,652	524,327
Cash operating expense	50,306	92,410	160,816	294,593		162,403	141,812	253,381
Prepaid expense (-if increased)	(1,779)	(1,321)	(1,342)	(8,058)		(3,398)	(1,328)	(5,930)
Accts, payable (+if increased)	(215)	91	(148)	(1,162)		(3/0)	(0.00 (0.00)	F 2
Farm-produced inputs	40	18/	311	740		308	257	000
lotal operating expense	48,365	196,18	159,635	284,918		158,942	140,073	246,699
Income belore depreciation	10,001	4,0	20,70	20,50		10,423	0,0,0	27,070
Less depreciation	15,807	9,0	55,55	102,10		33,121	2,0	96,78
Mot from Income adjustment	020	215	450 054	200 000		440 624	445 043	547 064
(created chare)	97,279	46,046	152,001	05,020		190,031	44 505	122 588
l abor & mot income per operator	17,248	40,73	60,424	4.54		45,374	29,680	81,867
Rate earned on investment. %	5.03	7.29	7.66	6.32		6.88	5.57	8.31
Motor Variations in totals due to to total	of oth of pain	most dollar Form	Spainter line ditter of	00 to 100 most	Cital theon this poods one	L	alian airian hanian llaur	rio coile

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Table 21s	
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	72.23 72	25.07 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 29.00 20.00	37 27.39 27.01 18.55 18.55 16.74 26.80	8	115	25	14
	24.22.24.25.25.25.25.25.25.25.25.25.25.25.25.25.	27.07 28.00 28.00 20.09 10.09 10.09 13.52 13.52 10.22 10.22 10.22 10.86 11.86	27.39 27.01 18.55 72.95 16.74				
	224.50 77.14 77.14 77.14 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15 77.15	27.07 28.08 28.08 28.08 28.08 10.88 11.02.80 17.74 10.20 16.87 16.87 16.87	27.39 27.01 18.55 72.95 16.74 26.80				
ities upplies ion nent total	19762 17.14 27.23 27.23 27.23 17.14 27.15 28.94	28.00 20.90 16.46 10.20 13.32 14.20 16.87 16.87 16.87 16.87	27.01 18.55 72.95 16.74 26.80	27.82	27.43	26.25	25.75
ities upplies ion nent total	19.03 27.14 30.06 6.72 6.72 11.01 12.59 37.10 22.24 22.24 113.13	20.99 76.08 16.98 10.22 10.22 16.87 16.87 16.87 16.87 16.87 16.87 16.87	18.55 72.95 16.74 26.80	26.88	27.15	27.84	30.03
3	77.14 77.14 70.06	76.06 23.60 23.60 10.86 10.20 8.18 8.18 8.18 16.87 5.482 5.482	72.95 16.74 26.80	18.40	18.95	18.53	20.35
3	22.23 26.64.72 20.66.47 20.65.3 37.10 22.21 22.21 22.21 23.10 23.10 23.10 23.10 23.10 23.10	16.49 23.60 10.86 10.22 8.18 8.16 16.87 16.87 16.87	16.74 26.80	73.10	73.53	72.62	76.13
	30.06 4.72 50.53 7.10 37.10 37.10 22.21 113.13	23.60 10.52 10.220 10.220 1.87 1.87 1.87 1.87	26.80	15.68	16.56	13.29	16.33
on hent total	6.72 50.53 71.01 7.25 7.25 7.25 99.40 113.13	10.86 13.52 37.74 102.20 8.18 8.16 16.87 33.23	1	26.26	26.07	26.14	26.25
on sent total	16.47 20.53 37.10 37.10 22.21 22.21 13.13	13.52 102.20 102.20 8.18 16.87 33.21 54.83	8.30	9.74	86.9	8.65	10.20
on lent total	25.59 27.10 37.10 37.10 22.21 22.21 21.61	37.74 102.20 8.18 8.16 16.87 54.87	13.28	12.97	13.29	12.44	13.71
ent total	31.01 12.59 7.25 37.10 22.21 13.13 13.13	102.20 8.18 8.16 16.87 33.21	37.32	34.53	36.57	34.15	40.48
	12.59 7.25 7.25 99.940 113.13	8.18 8.16 16.87 33.21	102.45	99.18	101.88	94.67	106.97
	7.25 37.10 37.10 22.21 121.61	8.16 16.87 33.21 54.83	8.37	7.55	8.10	8.97	8.19
	37.10 56.94 99.40 22.21 113.13	33.21 54.82	10.88	9.84	9.78	7.23	10.07
dation	56.94 22.21 22.21 13.13	33.21	21.23	23.72	22.11	19.08	33.67
10	99.40 22.21 113.13	54 82	40.48	41.11	39.89	35.27	51.93
P	22.21 21.61 113.13	1	37.90	25.49	37.44	38.12	30.54
Labor, hired	21.61	25.27	35.19	51.51	40.39	25.86	72.10
	13.13	80.09	73.09	77.00	77.83	63.99	102.64
	֡	300.65	292.89	245.80	276.85	224.60	320.06
	10./6	52.40	53.18	88.25	69.24	48.26	112.64
rest paid	38.51	31.25	29.68	35.68	33.01	35.29	32.49
	05.88	335.04	348.85	337.62	339.70	319.33	351.66
9	93.57	225.90	219.54	191.40	210.35	147.69	302.69
uction	03.80	566.82	576.85	539.05	558.61	479.16	661.97
	10.54	505.42	506.45	506.85	509.99	465.70	574.78
eturns	(3.78)	62.26	71.22	32.25	49.17	13.91	87.40
	1	2000	2,0,0	000	1	000	7
ltory	0,74	70,389	121,343	222,081	173,77	97,908	214,662
Bemaining cost in	- È	o t	300,001	771 (677	224,55	210,121	0.6,001
	12 60B	30.057	47.062	109 737	5.4 25E	40.630	07 050
	20,960	26,377	57.271	143.618	66.289	52,853	125,438
	0	69	0	266	8	136	432
Value of land (current) 417	7,522	816,735	1,333,664	2,364,149	1,341,596	1,347,606	1,700,897
ı	543,521	1,028,585	1,697,873	3,061,972	1,719,536	1,658,156	2,320,347
cre	2,897	2,699	2,697	2,709	2,710	2,576	2,739
Machinery invest, per till, acre	2	82	78	103	6	88	124
Commendation of the commen	9			0			
Com and com silage	20 CO	51.0 21.0	¥.8	52.9	20.00	4. c	24.2
Soybeans Wheet	7.5	7.7	30.5	υ. .	55.0 4	5.5 5.0	4.4
Other email grain	- c		† \		- C	9 0	- 6
Diverted acres) (d		t c	- 1	5.4	9 0	3.4
All hav and pasture	. 4	÷ 0	900	. .		9 9	- 6
Crop vields, bushels per acre) ř	i	?	?	?	ì	!
Com	124	133	134	132	133	124	138
Sovbeans	46	49	8	49	8	47	48
Wheat	9	4	5	40	45	46	8

Table 22. 1993 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois

		400	001	200	Year.	All C	4.4.	17.17
Hange in size (total acres)	60-228	260-488	200-738	SS/ JeAO	Your Farm	All Farms	Months	Months of Labor
Management retums Number of farms	37	74	89	48		722	21-27 50	31-39 20
Total acres in farm	181	380	638	1.241		607	299	827
Acres of tillable land	162	338	266	1,054		529	576	709
Soil rating on tillable land	74	75	75	75		75	74	92
Total months labor	17.4	17.3	24.2	40.0 0.0		24.2	24.5	34.7
Months of hired labor	e S r	0.4 0.5	10.3 5.55	20.2		9.0L	. 60°C	15.5
Pork produced, hundredweight	3.480	3.186	5.210	8.782		5.024	4 808 808	8.252
Dairy cows, number	-	0	0	0		0	0	0
Dollar returns per farm	40.450	04.00	1100	700 430		14000	474	*14.000
Urop returns Livestock returns above feed	84,138	55,797	94 433	171,635		550	86,241	165,234
Custom work	645	200	1,488	4.21		456	2,186	4 445
Other farm receipts	1.059	1.126	2,350	6,630		2,646	1.603	3,606
Value of farm production	132,441	155,736	273,748	534,011		267,278	261,690	412,735
Dollar costs per farm				1				
Crop expenses	12,749	24,083	41,764	78,067		38,947	43,069	48,830
Power and equipment	29,567	35,635	54,108	99,950		53,779	55,775	77,877
Building and fence	12,093	11,466	18,554	38,194		19,343	21,212	25,495
Labor	28,373	26,810	40,834	79,134		42,330	39,802	56,422
Livestock services and supplies	10,465	6,4/4	11,222	18,648		11,121	217,71	15,6/9
laxes	3,699	069,9	10,139	19,847		810,01 570,0	10,683	12,538
Insurance and miscellaneous	20,00	026,4	10,80	17,740		76,90	240,00	14,459
Interest on nonland capital	12,749	04/20	47,050	40,74		23,542	23,010	7.8.5.5
Total applied oper	10,01	457 549	47,039	400 4E4		100 000	260,046	247 059
Capital account adjustment	100,0X	5. 7. A.	1 623	103,101		126,362	340	200,740
Management returns	7017	/4 05E	40 405	AE 025	-	45 774	25	102,2
Form production per 61 00	e o'f	(eco'l)	6,195	676'64		2,16	3	100,304
of nonfeed costs	1.03	66.0	1.07	1.09		90	1.00	1.19
Farm production per man	91,155	108,025	135,586	160,028		132,499	128,206	142,651
Financial summary								
Cash onerating income	216 642	230 029	301 076	694 193		374 239	375 125	531 516
Inventory change	8,631	5.119	21.748	37,629		17,547	11,703	47.818
Accts, receivable (net change)	(3,083)	(7,821)	(11,124)	(17,567)		(10,099)	(10,874)	(6,679)
Farm products used	281	347	514	947		513	452	959
Less purchased feed	74,267	23,006	92,495	138,014		86,276	87,230	130,516
Less purchased livestock	15,752	17,630	35,972	43,178		28,221	27,486	27,362
Adjusted gross farm income	132,452	157,037	273,748	534,011		267,704	261,690	412,735
Cash operating expense	66,895	79,782	137,745	276,629		136,669	138,375	184,620
Prepaid expense (-if increased)	(SZ)	(111,2)	(082,5)	(6,745)		(2,504)	(1,924)	(3,749)
Accis, payable (+ii increased)	9	(to 2)	(184)	370		(10/)	0 4	4,50
Tarm-produced inputs	900	36	7/1	249		201	496 604	392
local operating expense	00,300	70,473	100,134	252,450		135,10	124,054	224 600
Loss dorreciption	92,490	17,600	10,75	200,420		2000	24 052	20,030
Capital account adjustment	180	85.	1,623	1,076		020	246	2,30
Net farm income *	49.208	62.804	111.680	205.210		105,341	93.492	193,918
(operator's share)	24.040	27,306	46.355	83,517		44,366	37.404	91,782
Labor & mgt. income per operator	22,534	16,937	34,842	52,589		30,752	17,628	72,709
Hate earned on investment, %	20.0	90.0	0.02	9.00		0.40	0.21	0.07

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils.

Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

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393 Average Operating Costs, Investments, and Lan	od Farme with Soil Ratings from 56 to 85
1993 Average Operating Costs, Investments, and Lan	Hod Farms with Soil Batings from 56 to 85
 a. 1993 Average Operating Costs, Investments, and Lan. 	Hos Farms with Soil Batings from 56 to 85
22a. 1993 Average Operating Costs, Investments, and Lan	Hod Farms with Soil Ratings from 56 to 85
e 22a. 1993 Average Operating Costs, Investments, and Lan	Hos Farms with Soil Batings from 56 to 85
ble 22a. 1993 Average Operating Costs, Investments, and Lan	Hos Farms with Soil Ratings from 56 to 85
Table 22a. 1993 Average Operating Costs, Investments, and Lan	Hod Farme with Soil Batings from 56 to 85

Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns							21-27	31-39
Number of farms	37	74	88	84		227	20	8
Some costs and returns per tillable acre								
Soil fertility	31.62	28.03	29.41	30.43		29.66	30.59	28.4
Pesticides	27.26	25.04	25.18	25.55		25.41	26.34	22.8
Seed and other crop	19.88	18.25	19.16	18.11		18.57	17.87	17.5
Crop total	78.76	71.31	73.75	74.09		73.64	74.80	68.81
Light vehicle and utilities	37.22	17.15	14.79	12.32		15.36	14.81	16.3
Machinery repairs, supplies	50.75	28.77	27.34	23.62		27.24	25.34	32.90
Machinery hire	21.15	11.53	8.18	10.99		10.71	6.6	6
Fuel and oil	19.94	13.08	12.35	12.70		13.03	12.00	14.6
Machinery depreciation	53.60	34.99	32.89	35.23		35.34	34.81	36.6
Power and equipment total	182.66	105.52	95,55	94.86		101,68	96.86	109.8
Drying and storage	9.76	8.06	8.31	5.80		7.27	7.33	9.9
Building repair	16.87	8.76	8.72	9.45		9.43	80.6	7.6
Building depreciation	48.08	17.14	15.73	21.03		19.87	20.43	19.6(
Building total	74.71	33.95	32.76	36.25	-	36.57	36.84	35.9
Labor, unpaid	117.82	62.21	38.73	20.72		39.97	40.55	42.77
Labor, hired	5/.4/	17.18	33.37	54.39		40.06	28.58	36.8
Labor total	175.29	79.39	72.11	75.11		80.03	69.12	79.5
Value of feed fed	624.36	268.83	25/.14	226.53		265.00	244.96	305.2
Capital purchases	131.10	49.93	59.66	62.09		63.48	64.05	48.6
Operator interest paid	47.47	32.84	35.34	29.35		35.90	원. 4	22.8
Crop returns	303.70	289.02	309.17	333.79		315.07	298.11	337.7
Livestock return above feed	503.98	165.22	166.76	162.75		181.57	149.77	233.0
Value of farm production	818.22	461.16	483.40	506.82		505.34	454.46	582.18
lotal nonreed cost	194.51	400.81	452.37	404.20		4/1.45	455.03	490.8
Management returns	24.81	(3.13)	33.90	43.59		29.82	0.04	94.48
Farm investment		17010	100 001	77.00		100	00,00	100
Dreis issuestes	05,715	110,10	100,300	1,0,409		101,931	400,473	166,715
Grain inversion Remaining cost in	24,00	tc/'00	103,770	214,212		104,572	100,921	, o, oc.
machinent and auto	18 336	CA8 AC	78 300	101 740		47 405	52 035	59 22
buildings and fence	40,554	24.375	50,230	121,622		55,339	51,309	69,69
soil fertility	0	120	128	299		141	235	316
Value of land (current)	297,140	618,168	1,045,762	2,012,053		988,674	1,033,584	1,394,113
Total farm investment	457,175	803,898	1,354,715	2,626,406		1,297,762	1,346,559	1,845,71
Total investment per acre	2,524	2,118	2,122	2,117		2,139	2,018	2,233
Machinery invest. per till. acre	113	74	82	26		88	92	80
Percent tillable land in								
Com and com silage	62.7	56.9	55.2	53.1		55.1	92.0	56.8
Soybeans	18.5	27.7	30.0	32.6		30.0	29.6	31.
Wheat	2.8	9.	3.5	3.8		3.2	4.4	ci.
Other small grain	5.9	1.7	9.0	0.5		9.0	0.5	ö
Diverted acres	2.0	5.9	6.4	8.9		6.4	6.8	'n
All hay and pasture	5.2	4.4	3.0	2.8		3.3	3.0	5.
Crop yields, bushels per acre								!
Con	118	115	119	128		2	116	12
Soybeans	4	45	4	47		94	4	84
	2	50						

Table 23, 1993 Average Return, Costs, and Financial Summary by Size and Management Returns for Southern Illinois Grain Farms

Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340-799	799
Management returns							Low 25%	High 25%
Number of farms	92	201	136	136		499	S	20
Total acres in farm	287	597	992	1,841		1,028	299	674
Acres of tillable land	83	3 5	924	1,718		428	55	989
Soil rating on tillable land	3,	g ;	9 ;	9 9		3	22,	8
Nonthe of hired labor	25.0	8.40	 	20.0		4. a	9.00	75.7
Beef produced hundredweight	515	1,1	75	73		74	10.	- 10
Pork produced, hundredweight	142	300	447	635		423	88	470
Dairy cows, number	0	0	0	-		0	0	0
Crop refume	71 826	160 134	281 034	539 R72		201 070	114 486	217 756
Livestock returns above feed	2,311	2.00 2.40	7.827	12,095		8.026	627	8,226
Custom work	332	1.198	1,866	3,810		2.047	1.208	1.301
Other farm receipts	2,776	2,243	2,991	4,475		3,083	1,492	2,391
Value of farm production	77,245	169,723	293,718	560,252		305,135	117,812	229,673
Dollar costs per farm								
Crop expenses	17,828	37,780	65,391	123,464		67,619	33,811	43,273
Power and equipment	9,500	70,40	90'.cc	15,030		00,00	2,000	59,139
l abor	10,273	20,00	28 133	45,049		30,124	23,621	24 199
Livestock services and supplies	373	4 95 96 96	1,5	1,0		1 157	578	584
Taxes	2.095	4.805	7,855	13,804		7.948	4.393	5.657
Insurance and miscellaneous	2.276	4.390	6,638	12,138		7,005	4.045	4,667
Interest on nonland capital	4,739	10,045	15,861	31,580		17,223	9,566	11,533
Land charge or net rent	14,312	30,728	52,788	93,345		52,951	27,933	34,801
Total nonfeed cost	82,425	153,555	241,910	437,154		251,223	146,833	170,170
Capital account adjustment	1,060	756	468	1,899		1,005	177	2,021
Management returns	(4,120)	16,923	52,211	124,997		54,91	(28,843)	61,524
of nonfeed costs	0.94	1.11	1.21	1.28		1.21	0.80	1.35
Farm production per man	75,621	137,217	194,312	232,406		188,304	90,532	174,989
Financial summary								
Cash operating income	78,758	171,173	283,174	534,732		295,969	136,366	220,290
Inventory change	1,931	12,336	27,985	58,515		108,87	(2,782)	24,193
Accts, receivable (net change)	(1 0 6)	(F62,2)	(5,448)	(9,559)		(LZO,¢)	(2,030) 175	(2,027)
l ess princhased feed	3 177	6 124	000'- 778'8	20,00		10 746	3 173	7,551
Less purchased livestock	3.091	6.231	4.569	4,265		5.078	7,675	6.267
Adjusted gross farm income	77,245	169,723	293,773	560,369		305,182	117,813	229,673
Cash operating expense	35,696	76,298	130,929	247,484		135,728	69,231	87,463
Acts payable (-ii increased)	<u>§</u>	(1,952)	(2,738)	(10, 83)		(248)	(8/5) 1 1 7 8	(6,7,7)
Farm-produced inputs	5.	202	1306	1 714		1724	625	985
Total operating expense	35.015	75.203	126,438	238,383		131.547	70.058	85,379
Income before depreciation	42,230	94,523	167,337	321,983		173,637	47,754	144,295
Less depreciation	9,641	17,916	26,309	48,116		28,003	19,541	18,499
Capital account adjustment	090,1	98/	468	668,1	the second second second	1,005	//1	1202
(operatoric chore)	33,649	56,77	141,497	197,677		146,639	96,87	127,817
Labor & mgt. income per operator	14,586	35,069	68,481	125,301		67,79	(9,518)	78,23
Hate earned on investment, %	3.89	0.95	α.ο.	8.83 C8.		α./σ	5.7	きこ

Note: Variations in totals due to rounding to the nearest dollar.
Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 23a. 1993 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois

Range in size (total acres)	180-339	180-339 340-799	800-1199	Over 1199	Your Farm	All Farms	340-799	199
Management returns	3	Š	ç	,			Low 25%	High 25%
Number of farms	92	201	136	136		499	20	23
Some costs and returns per tillable acre		;	!					
Soil fertility		30.50	31.45	31.25		31.14	30.52	28.44
Pesticides	21.55	22. 4	23.06	23.78		23.25	20.52	24.32
Seed and other crop	14.42	16.02	16.24	16.85		16.46	16.16	15.24
Crop total	67.71	96'89	70.75	71.88		70.85	96.99	68.00
Light vehicle and utilities	6.12	5.26	3.95	3.78		4.20	5.27	5.17
Machinery repairs, supplies	20.73	18.76	17.23	16.70		17.38	18.89	19.08
Machinery hire	4.93	5.04	4.82	5.36		5,14	6.13	3.94
Fuel and oil	7.70	9.05	9.05	8.52		8.76	9.52	8.66
Machinery depreciation	30.82	28.49	24.63	24.38		25.49	34.99	24.69
Power and equipment total	70.29	66.57	59.68	58.74		60.97	74.81	61.54
Drying and storage	2.50	3.33	3.67	3.29		3.39	2.60	3.10
Building repair	4.14	2.96	2.15	1.83		2.21	3.74	2.33
Building depreciation	5.80	4.19	3.83	3.64		3.85	3.67	4.31
Building total	12.44	10.48	99.6	8.76		9.45	10.01	9.74
Labor, unpaid	71.09	35.81	22.15	14.93	-	22.47	39.05	31.34
Labor, hired	1.37	5.81	8.29	11.30		60.6	7.73	9.68
Labor total	72.46	41.62	30.44	26.23		31.56	46.78	38.03
Value of feed fed	25.89	20.70	16.99	12.56		15.80	12.64	23.47
Capital purchases	54.13	35.03	36.63	35.16		35.79	35.57	38.14
Operator interest paid	12.11	19.80	16.95	15.26		16.71	20.31	21.58
Crop returns	272.78	292.31	304.07	314.33		305.93	226.52	342.20
Livestock return above feed	8.78	11.22	8.47	40.7		8.41	1.24	12.93
Value of farm production	293.36	309.81	317.79	326.19		319.72	233.11	360.93
Total nonfeed cost	313.04	280.30	261.74	254.52		263.23	290.53	267.42
Management returns	(15.65)	30,89	56.56	72.78		57.54	(57.07)	96.68
Farm investment								
Livestock inventory	9,513	14,629	17,193	20,561		16,678	16,791	13,824
Grain Inventory Remaining cost in	まがす	8//18	133, 123	300,008		102,300	620,69	122,610
machinery and auto	12 860	31 505	48 132	112 160		57.050	38 117	32 734
buildings and fence	8.753	9.547	12.971	28,647		15,645	11,511	8.197
soil fertility	0	42	78	380		128	5	69
Value of land (current)	318,041	682,843	1,173,071	2,074,330		1,176,687	620,727	773,354
Total farm investment	384,114	830,348	1,404,524	2,536,141		1,428,491	752,274	950,789
	1,33/	1,390	1,416	1,3//		1,390	1,343	1,410
Macninery invest, per till, acre Percent tillable land in	94	8	25	8		3	6	ភ
Corn and com silage	33.2	36.8	37.3	38.5		37.7	30.2	39.3
Sovbeans	36.1	38.9	39.4	37.9		38.5	34.1	41.5
Wheat	17.9	13.9	13.9	12.7		13.4	18.7	12.7
Other small grain	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Diverted acres	0.4	4.6	3.9	0.4		4.1	4.0	3.5
All hay and pasture	5.1	2.5	1.7	1:2		1.6	4.4	9.0
Crop yields, bushels per acre		!						
Con	126	127	133	131		5	103	54
Soybeans	96 9	4 i	4	45		4.	8	4:
***************************************		7.7	2	cu		9		

Table 24. 1993 Average Return, Costs, and Financial Summary by Size and Months of Labor for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

oc mon sgrings noc	60 01							
Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months of Labor	
Number of farms	6	36	25	88		103	24	11
Total acres in farm	165	372	629	1,254		699	602	1,056
Soil rating on tillable land	55	38	22	<u>.</u> 8		265	- - - -	88
Total months labor Months of hired labor	16.2 2.2	18.9 4.7	24.5 2.4.5	37.6 19.0		0.0	2, 2, 2, 2, 2, 2, 2,	34.4 6.4.3
Beef produced, hundredweight	149	74	133	370		085	119	1,040
Pork produced, nundredweight Dairy cows, number Daily roth mo por farm	6,835 0	80°'s	4, 0,	8,482 0		607'c	4. 8. 0.	\$ \ \ \
Crop returns	38,653	101,281	149,117	345,419		185,638	141,895	304,524
Livestock returns above feed	55,297	47,068	80,176	152,553	ē	89,619	68,786	135,395
Other farm receipts	3 F	1664	2,130	4, 7, 9, 0, 3, 9, 6, 8		2,002	368	2, c.
Value of farm production	94,720	150,627	232,861	507,985		280,195	213,885	445,850
Dollar costs per farm		1						000
Crop expenses	50405	25,551 32,691	35,961	79,459		45.4	24,60g	64,536 565 565
Building and fence	12,533	7,967	17,451	33,226		18,761	13,829	28,024
Labor	26,118	28,968	37,316	61,010		41,011	35,271	51,930
Livestock services and supplies	7,449	5,822	10,621	20,770		11,918	10,204	17,390
laxes	102,2	3,737	71,6	046,01		6,059	2,7,6	1,18/
Interest on nonland canital	2,335 8,576	11,080	10,933	42,319		22,05	17,903	37.028
land charge or net rent	883	19 433	29,421	66.970		36,165	30,374	54 930
Total nonfeed cost	95,221	141,359	212,228	426,102		245.757	203,464	354,634
Capital account adjustment	0	347	(1,599)	(954)		(572)	1,566	(3,071)
Management returns	(499)	9,614	19,033	80,927		33,864	11,987	88,144
of nonfeed costs	0.99	1.07	1.10	1.19		1.14	1.05	1.26
Farm production per man	70,067	95,636	114,036	162,201		129,263	107,710	155,941
Financial summary								
Cash operating income	155,943	214,232	321,993	650,347		375,020	293,990	541,728
Accts receivable (net change)	300,0	(804)	(1,845)	(5.941)		(2,632)	(415)	7,481)
Farm products used	279	982	1,162	2,904		1,580	1,463	3,267
Less purchased feed	59,792	63,718	86,375	157,033		98,771	81,129	127,523
Adjusted gross farm income	04 720	150 627	282,02	507 985		280 195	213 885	445.850
Cash operating expense	45.475	72.571	111,399	243,434		134.370	105,263	201,708
Prepaid expense (-if increased)	(1,005)	(334)	(2,597)	(13,855)		(5,274)	(2,170)	(19,341)
Accts, payable (+if increased)	0 8	£	25	(450 (670 (670		(147)	9(/8)	(915)
Total operating expense	AA 557	25.767	100 402	2,559		130 130	104 033	184 198
Income before depreciation	50,163	77,909	123,369	276.249		150,064	109,852	261,652
Less depreciation	11,067	14,989	27,917	55,948		30,907	23,582	47,431
Capital account adjustment	0	347	(1,599)	(954)		(572)	1,566	(3,071)
Net farm income."	39,096	63,267	93,851	219,347	-	118,584	87,836	120.263
Labor & mgt. income per operator Pata parmed on investment %	17,264	28,517	29,708 7,308	81,703 24,703		24 28 28 28	80,138 1,08 1,08 1,08 1,08 1,08 1,08 1,08 1,0	101
Note: Variations in totals due to roun	ding to the near	rest dollar	20:1	4.5		5	999	2

Note: Variations in totals due to rounding to the nearest dollar.
Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 24a. 1993 Average Operating Costs, investments, and Land Use by Size and Management Returns for Southern Illinois
Hog Farms with Soil Ratings from 36 to 85

| Power in the Part Costs | Power in

nange in size (lotal acres)	200	500-433						
Nimber of ferme	d	96	36	8		5	21-27	31-39
Comp coate and returns nor tillable sore		8	62	3		3	47	=
Odile costs and retuins per unable		07.00	00 00	75.00				
Soil reruiity	74.5/	55.19	70.3/	7.87		8.93	8.7	77.27
Pesticides	18.12	26.19	22.07	23.82		23.78	23.19	5 6.56
Seed and other crop	15.27	17.15	15.18	17.75		17.03	16.82	16.57
Crop total	57.95	76,53	63.62	70.27		69.76	99'.29	65.65
Light vehicle and utilities	32.57	16.11	15.35	10.71		13.12	16.57	11.19
Machinery repairs, supplies	47.94	30.28	26.35	23.06		25.57	28.63 5.63	22.0
Machinery hire	21.43	9,5	3.66	6.97		5.93	3.30	90.9
Mostings description	75.37	0.40	13.04	12.93		13.60	25.50	12.38
Macilliery depreciation	459.44	32.33	62.12	32.40	19 11 18 1 18 1 18 1 18 1 18 1 18 1 18	40.10	40.10	32.04
Daing and storage	5.50	36.96	2.43	4.00		60.00	24.60	27.42
Building repair	32.87	8 6	5.34	, a		9 00	7 C	. d
Building depreciation	58.31	11.87	22.10	17.02		12.67	14.67	16.37
Building total	60 86	23.86	30.87	26.00		20.00	27.04	28.96
labor unpaid	173.25	22.09	45.70	25.82		40.40	55 17	32.27
Labor, hired	31.15	20.00	20.32	28.14		24.97	13.79	21.39
Labor total	204.40	86.77	66.02	53.96		65.38	96.89	53.66
Value of feed fed	588.17	297.73	233.66	212.37		239.59	250.78	202.83
Capital purchases	56.18	45.86	71.34	61.61		60.71	36.37	76.54
Operator interest paid	27.80	29.99	25.45	24.87		26.00	30.63	24.54
Crop returns	302.50	303.36	263.81	305.48		295.92	277.41	314.68
Livestock return above feed	432.76	140.98	141.84	134.92		142.86	134.48	139.91
Value of farm production	741.29	451.17	411.97	449.25		446.65	418.15	460.72
Total nonfeed cost	745.21	423.41	375.46	376.84		391.76	397.78	366.46
Management returns	(3.92)	28.80	33.67	71.57		23.98	23.44	91.08
Farm investment	001	000	100	7.		1000	-	
Livestock inventory	8,78	608,50	93,797	092,171		3/0'SOL	85,953	135,691
Grain inventory	33,558	296,66	256,18	66/192		104,11	82,920	272,462
moshing cost III	000	100	077 70	*00 00*		10001	722.00	05 740
machinery and auto	10,229	/26,12	8/4/8	12,05		43,624	32,554	32,73
bulldings and lence	050,	1,0,7	054,54 084	6 0 0 0		42,074	84,87 54,87	90,
Value of land (current)	107 300	431 841	653 700	1 488 213		873 578	674 074	1 220 671
Total farm investment	313,605	590,164	920,522	2 064 481		1 118 536	905,868	1 731 604
Total investment per acre	1,897	1,588	1,463	1,646		1.601	1,506	1.640
Machinery invest, per till, acre	8	2	99	68		62	2	
Percent tillable land in								
Com and com silage	42.3	4.	45.0	39.8		41.1	9.04	8.
Soybeans	33.7	29.6	32.0	33.3		32.3	32.4	32.8
Wheat	11.7	15.9	1.0	12.3		12.7	12.8	9.4.0
Other small grain	0.0	0.0	0.0	0.0		0.0	0.0	0.0
DIVened acres	2.2	20 C	D (0	4.0		D (0	7.4	4.0
All hay and pasture	ų.	3.0	O.4.	8.7		3.2	7.7	ري 1.
Crop yields, bushels per acre	9	,	001	,		č	,	3
E-3	8	5	<u></u>	8:		וצר	211	121
Soybeans	4.	14 ,	₹:	3.		14	5 L	4.8
		4		-				

Farms	Coll Col
ois Dairy	4.00
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ows in He	
Table 25. 1993 Average Return, Costs, and Financial Summary by Number of Cows in Herd for Illinois Dairy Farms	
Summary by	
d Financial S	4 - 14
, Costs, an	
ge Return	
1993 Avera	4-4-4-4
Table 25.	1

Area of state		Northern Illinois	Illinois			Southern Illinois	Illinois	
Number of cows in herd	10-39	40-79	Over 79	All Farms	10-39	40-79	Over 79	All Farms
Number of farms	16	85	32	130	2	24	83	62
Total acres in farm	231	371	2005	386	357	335	529	440
Acres of tillable land	172 27	317 27	427	326	325	S 4	9/4 903	388
Total months labor	15.2	21.0	32.1	23.0	28.3	21.1	33.6	28.3
Months of hired labor	3.4	5.4	14.3	7.3	14.5	6.8	15.4	12.0
Beef produced, hundredweight	392	<u>8</u> ;	818	605	252	377		502
Pork produced, nundredweight Daiov cows, number	2 80 80 80 80 80 80 80 80 80 80 80 80 80 8	//1	7.59 101	88	၁ဗ္ဗ	201	110	3 %
Dollar returns per farm	3	5	2	3	}	3	!	3
Crop returns	49,843	86,181	126,127	91,541	92,861	93,320	142,495	119,456
Livestock returns above feed	45,718	67,717	135,169	81,613	59,123 260	81,637	131,182	106,192
Other farm receipts	1.154	1,461	2,585	1,700	1,993	2,119	2,283	2,196
Value of farm production	96,958	156,067	264,407	175,460	154,246	177,489	276,123	228,113
Dollar costs per farm								
Crop expenses	12,204	20,910	29,272	21,897	23,742	20,575	32,201	27,018
Power and equipment	25,16/	44,318	04,882	44,499	26,332	45,930	40,804	56,024 0.473
building and lence	25,467	20,438	7.52 1.52 1.54	36.156	44 104	32,634	50,53	43,069
Livestock services and supplies	8,696	15,702	32,944	19,084	9,256	11.985	23,345	17,812
Taxes	3,385	5,816	8,790	6,249	3,321	2,688	4,127	3,505
Insurance and miscellaneous	2,490	4,418	7,781	5,009	3,690	4,845	6,573	5,672
Interest on nonland capital	10,092	17,549	29,851	19,659	9,152	14,812	26,658	20,661
Land charge or net rent	14,043	470 000	31,895	704,984	16,131	17,920	600'07	700,73
Conital account adjustment	109,8/9	173,209	2//,/08	191,137	140,760	157,640	250,188	205,538
Management adjustment	(40 07)	(46.405)	(49 495)	(45 479)	19 49	089 00	26.047	22 020
Farm production per \$1.00	(15,034)	(10,423)	(13,133)	(13,173)	13,400	£00'07	140'07	43,030
of nonfeed costs	0.88	0.90	0.95	0.92	1.10	1.13	1.10	1.11
Farm production per man	76,577	89,249	98,729	91,477	65,451	101,041	98,616	96,644
Financial summary		70000		000	017	700	047 070	274.074
Cash operating income	37/75	202,034	347,305	000,622	159,442	198,740	0/8/7 4 0	14,951
Accts, receivable (net change)	(2,087)	(5,535)	(6,373)	(5,317)	(1,623)	(349)	(1,675)	(1,158)
Farm products used	1,304	2,037	2,452	2,049	1,588	1,115	1,892	1,567
Less purchased feed	23,654	30,627	66,176	38,519	22,598	31,130	67,545	49,824
Less purchased livestock	11,381	12,999	13,279	12,869	0	8,200	5,486	6,094
Adjusted gross farm income	97,697	157,340	265,608	176,650	154,836	177,840	276,573	228,536
Cash operating expense Prepaid expense (-if increased)	34,022	(548)	(1 498)	(692)	30,002	1332	(+)	762
Accts, payable (+if increased)	50	900	(114)	(82)	(125)	10	224	109
Farm-produced inputs	770	1,359	1,267	1,264	,290,	523	917	738
Total operating expense	55,677	88,113	154,480	100,457	83,585	79,687	136,001	109,975
Income before depreciation	42,020	69,227	111,128	76,192	71,251	98,153	140,573	118,562
Less depreciation	11,702	19,988	34,588	22,562	8,746	23,057	32,684	27,027
Capital account adjustment	8	01/	8	200		00,1	711	70#
Net farm income "	30,404	49,954	76,705	54,133	62,504	76,136	108,000	770,73
(operator sinare)	20,02	9,010	37,220 8,638	4 015	22,110	38,548	38,45	37,071
Rate eamed on investment, %	2.60	3.31	4.46	3.64	7.91	90.6	8.46	8.61

Rate eamed on investment, % 2.60 3.31 4.46 3.64 7.91 9.08

Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.

* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Area of state		Northern Illinois	llinois			Southern Illinois	Illinois	
Number of cows in herd Number of farms	10-39 16	40-79 82	Over 79 32	All Farms 130	10-39 5	40-79 24	Over 79	All Farms 62
Some costs and returns per tillable acre								
Soil fertility		28.71	26.63	27.16	30.05	31.58	31.00	31.11
Pesticides	17.75	20.65	20.89	20.54	26.33	18.20	19.52	19.57
Seed and other crop	19.74	18.62	20.99	19.46	16.79	17.76	16.65	16.99
Crop total	71.01	90.99	68.51	67.16	73.14	67.54	67.17	67.67
Light vehicle and utilities	21.80	19.78	25.20	21.66	13.72	21.01	17.62	18.36
Machinery repairs, supplies	39.05	35.25	42.43	37.81	29.59	35.62	42.25	39.46
Machinery hire	24.22	12.06	15.71	14.02	4.06	11.81	11.58	11.16
Fuel and oil	16.37	16.18	17.98	16.77	10.27	17.44	17.45	16.98
Machinery depreciation	44.99	44.08	50.55	46.23	23.48	64.90	52.65	54.36
Power and equipment total	146.43	127.35	151.86	136.49	81.12	150.77	141.55	140.31
Drying and storage	5.88	7.78	7.92	7.70	3.34	0.82	2.89	2.31
Building repair	14.58	9.36	13.50	11.03	2.54	8.89	7.09	7.33
Building depreciation	23.09	19.05	30.41	22.98	3.47	10.79	15.52	13.34
Building total	43.56	36.19	51.83	41.72	9.34	20.50	25.51	22.97
Labor, unpaid	108.25	27.66	62:83	75.85	96.99	73.89	59.73	64.39
Labor, hired	41.95	25.66	51.49	35.05	68.91	33.24	45.60	43.48
Labor total	150.20	103.32	117.38	110.90	135.87	107.13	105.34	107.87
Value of feed fed	329.07	279.49	350.42	305.59	149.21	251.79	288.77	268.70
Capital purchases	72.66	53.59	57.18	55.99	31.78	70.86	61.69	62.43
Operator interest paid	39.55	37.87	38.08	38.05	21.34	33.79	36.51	34.7
Crop returns	289.99	272.21	295.21	280.78	286.08	306.34	297.22	299.18
Livestock return above feed	266.00	213.89	316.37	250.33	182.14	267.99	273.62	265.96
Value of farm production	564.12	492.95	618.86	538.18	475.19	582.65	575.95	571.32
l otal nonreed cost	639.30	547.09	649.99	586.2/	433.64	51/.49	521.85	514.78
Management returns	(/4.68)	(51.88)	(30.74)	(46.54)	41.55	68.5/	X	57,70
Farm investment	207 73	700	454 500	400	30.00	64 574	160 044	404
Grain inventory	32,720	9,497 9,490 9,000 9,000	060,00	102,122	30,025 50,760	51,574	105,541 86,533	24,127
Remaining cost in	05,000	300,00	200	3	25,103	2	3	7.0
machinery and auto	15,960	35,988	64,857	40,629	16,873	41,500	55,906	47.182
buildings and fence	24,280	45,057	74,163	49,664	6,920	17,847	39,570	28,528
soil fertility	0	58	170	88	0	151	0	29
Value of land (current)	323,180	540,539	708,769	555,197	402,920	398,357	593,088	502,372
Total farm investment	453,751	769,483	1,089,347	809,359	515,507	590,918	938,437	769,806
Total investment per acre	1,963	2,073	2,178	2,099	- 44 4	1,763	1,772	1,748
Machinery invest. per till. acre	တ္တ	114	152	125	25	136	117	118
Percent tillable land in	1	c c	ì	ì	į	0	0	į
Country Silage	7.00	25.0	51.1	رد. د. د	4.74	85.8	8/.B	37.1
Wheat	† C	o a	o c	0 0	50.0	72.	7.5	45.7
Other small grain	5.7	4.	9.4	. 4 . 0	0.0	0.1	0	0.00
Diverted acres	4.3	5.3	4.3	4.9	3.1	23	23	2.4
All hay and pasture	28.2	25.9	29.1	27.1	15.8	25.9	20.8	22.0
Crop yields, bushels per acre								
Com	107	<u>8</u>	Ξ	\$	109	115	118	116
Soybeans	4,	8 8	4	\$;	41	4 5	g 9	4 :

Area of state Months of Lat Months of Lat			Northern Illinois			Months	IX.	Southern
Range in size (total acres) Number of farms	180-339 12	340-799 42	Over 799 29	All Farms 83	Your Farm	21-27 17	31-39	Illinois 16
Total acres in farm	289	509	1,166	707		862	1,151	674
Acres of tillable land	566	439	1,087	940		814	000,	200
Soil rating on tillable land	84	78	8	13		8	78	21
Total months labor	14.0	17.8	31.8	25.3		24.5	35.6	21.2
Months of hired labor	0.25	4.0	15.1	20.0		9.0	15.9	0.0
Beer produced, nundredweight	656,1 00+	2,303 2,303	4, -	3,116		4,234	0,630	1,2/4
Dairy cows pumber	66	3	30	ĵ		S	10	30
Dollar returns per farm	•	•	•			,)	,
Crop returns	76,426	139,919	355,091	205,920		266,250	309,744	130,633
Livestock returns above feed	21,035	50,433	92,817	60,991		67,427	83,913	15,826
Custom work	743	1,683	3,289	2,108		1,627	5,817	1
Other farm receipts	1,093	1,4/6	2,/4/	1,865	-	1,625	3,296	2,062
Value of farm production	99,297	193,512	453,945	270,885		336,929	402,771	149,298
Cron expenses	22 284	35 639	80.817	52 634		65,320	75 171	29 883
Power and equipment	28.557	45,418	97,695	61.246		77,853	110,756	45.738
Building and fence	9,174	10,723	23,879	15,096		20,572	33,054	5,191
Labor	21,824	27,608	51,311	35,054		37,053	58,111	31,657
Livestock services and supplies	2,674	7,824	15,260	9,678		9,513	17,434	4,915
Taxes	5,362	9,045	20,393	12,478		15,131	22,318	1441
Insurance and miscellaneous	3,495	5,845	12,914	7,975		8,920	12,930	5,733
Interest on noniand capital	941,71	27,908	00,40	38,904		0/4/4	400,00	19,331
Land charge or net rent	24,528	38,490	56,893	20,881		73,602	802,209	23,440
Total nonfeed cost	135,053	208,500	472,162	290,004		355,435	482,046	1/0,330
Capital account adjustment	9	6//	1,084	08/		2,028		100
Management returns	(35,649)	(14,213)	(17,133)	(18,332)		(10,4//)	(18,831)	(18,488)
of porfeed costs	0.74	0 0	900	0 0		0.05	0.84	880
Farm production per man	85 163	130 667	171 263	146 895		165 066	135 765	84.384
Financial summary	3	00,001	207				200	
Cash operating income	320,826	513,934	1,176,476	717,506		799,802	1,360,114	257,724
Inventory change	(19,027)	19,397	13,503	11,782		18,262	(150,060)	(2,367)
Accts. receivable (net change)	(7,677)	(13,328)	(27,890)	(17,599)		(22,740)	(31,873)	0
Farm products used	633	886	2,368	1,419		2,041	1,489	1,224
Less purchased feed	20,828	35,257	7,019	56,763		21,56	00,00	23,600
Less purchased livestock	1/4,62/	292,223	633,495	394,461	The state of the s	406,724	690,498	200,77
Adjusted gross farm income	782,69	193,512	453,945	270,885		336,929	220,903	149,298
Cash operating expense	0,034	(3,694)	(4.084)	(2714)		(3,867)	(2471)	804, 207,
Acts payable (+if increased)	(308)	(661)	1,533	156		1.495	(684)	(8)
Farm-produced inputs	0	35	220	217		822	11	20(
Total operating expense	57,511	97,614	229,215	137,797		163,622	236,957	84,674
Income before depreciation	41,787	95,898	224,730	133,088		173,307	165,814	64,624
Less depreciation	16,959	24,188	55,767	34,176		46,560	97/19	18,55/
Capital account adjustment	2	0//	400,0	8 8		2,020	100.00	0,0
Net farm income	24,934	72,485	1/0,046	99,698		128,775	104,532	46,610
(operator single)	(47.537)	1,917	6,04	10,00 000		5,302	(38 565)	000
Rate earned on investment. %	0.76	4.19	4.73	4.29		4.52	2.64	2.96

Hate earned on investment, % 0.76 4.19 4.73 4.29 4.29 4.29 4.29 A.52

Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.

Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Alea Ol state		-	Cicilian Internation	1			indian of many	
Hange in size (total acres) Number of farms	180-339	340-/98 42	29 29 29	All Farms 83	Your Farm	21-2/ 17	31-39	Illinois 16
Some costs and returns per tillable acre								
Soil fertility		34.43	34.70	34.81		33.76	26.27	27.06
Pesticides	26.75	26.34	27.34	56.96		27.54	26.68	18.93
Seed and other crop	18.79	20.48	20.61	20.45		18.95	22.23	13.81
Crop total	83.69	81.25	82.64	82.22		80.24	75.18	59.80
Light vehicle and utilities	10.61	10.11	7.02	8.31		7.19	7.67	9.05
Machinery repairs, supplies	25.14	28.12	24.08	25.54		22.18	32.41	32.82
Machinery hire	13.37	8.84	5.70	7.25		10.12	8.16	2.71
Fuel and oil	13.02	12.56	13.14	12.93		12.24	15.61	13.81
Machinery depreciation	45.11	43.93	39.95	41.64		43.90	46.92	33.17
Power and equipment total	107.25	103.56	89.89	95.68		95.64	110.77	91.53
Drying and storage	3.84	5.58	5.79	5.60		5.74	6.70	1.86
Building repair	12.03	7.65	4.82	6.23		6.24	11.54	4.56
Building depreciation	18.59	11.22	11.36	11.75		13.29	14.82	3.97
Building total	34.46	24.45	21.97	23.58		25.27	33.06	10.39
Labor, unpaid	70.99	46.26	24.19	34.65		29.70	31.05	48.76
Labor, hired	10.98	16.69	23.03	20.11		15.81	27.06	14.60
Labor total	81.97	62.95	47.21	54.76		45.52	58.12	63.35
Value of feed fed	254.90	262.19	227.52	241.18		200.42	275.97	185.10
Capital purchases	47.13	65.62	50.30	55.42		58.09	49.79	45.66
Operator interest paid	41.66	39.52	37.71	38.58		43.13	44.01	24.27
Crop returns	287.05	319.05	326.72	321.68		327.06	309.79	261.43
Livestock return above feed	79.00	115.00	85.40	95.28		82.83	83.93	31.67
Value of farm production	372.95	441.26	417.68	423.16		413.89	402.83	298.78
Total nonfeed cost	507.24	475.43	434.44	453.03		436.62	482.11	340.87
Management returns	(133.90)	(32.41)	(15.77)	(28.64)		(20.24)	(78.84)	(39.00)
Farm investment								
Livestock inventory	120,730	226,981	447,773	288,763		332,178	491,694	154,356
Grain inventory	69,650	92,498	240,385	140,866	-	194,882	193,983	72,456
mechine cost in	327 70	707 70	420 570	50 507		04 070	400 970	220 00
machinery and auto	204,12	54,45	76,57	720,50		91,2,18	110,660	20,000
soil fertility	0	20,50	0	25		0	0	
Value of land (current)	545,066	855,477	2,153,192	1,264,016		1,635,605	1,849,099	520,887
Total farm investment	789,595	1.244,987	3,038,449	1,805,778		2,314,307	2,783,810	787,682
Total investment per acre	2,730	2,446	2,605	2,555		2,685	2,420	1,168
Machinery invest, per till, acre	103	79	=======================================	66		112	129	33
Percent tillable land in								
Com and com silage	68.2	65.2	65.1	65.3		58.5	72.2	36.4
Soybeans	18.1	15.5	19.6	18.1		26.9	10.7	23.3
Wheat	0.0	0.5	-:	8.0		6.0	0.5	4.0
Other small grain	9 0	- I	1.0	7 C		9.6	9 1	100
Diverted acres	9.0	- 0	- 4	4.0		5.4		2.50
Crossingle hishelp sorgers	ું	o.	o Ť	5.5		ŧ	ř	9
Clop yields, business per acre	124	122	124	123		128	111	103
Sovbeans	4	18	. 4	4		4	8	37

Table 27. 1993 Average Return, Costs, and Financial Summary by Size, Type, and Soil Rating for Part-time Illinois Farms that Use Less than 10 Months of Labor

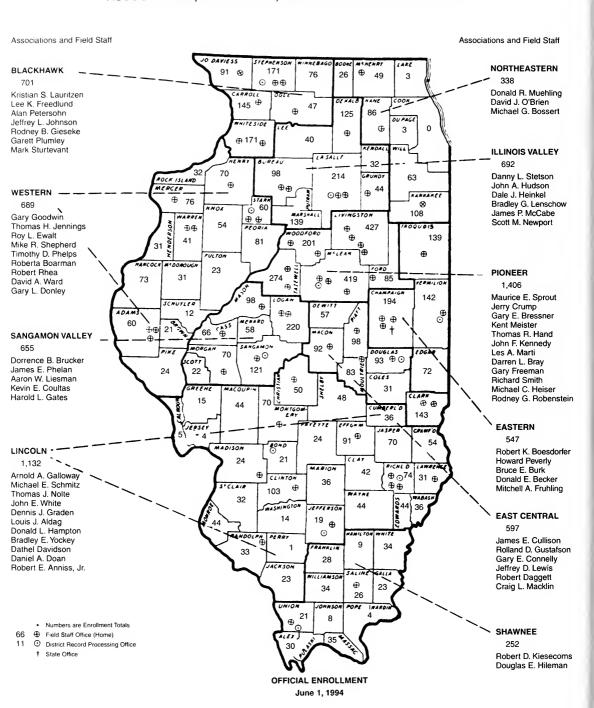
Range in size (rotal acres) Charle acres Noment of State Charle acres	than 10 Months of Labor								
Marces Grain 260 Grain	Area of state		n 56-85	Norther	96-100	Livestock	Souther	n 36-85	Livestock
mm 180 452 354 181 384 186 452 187 384 186 189 470	Range in size (total acres)	Grain <260	Grain >260	Grain <260	Grain >260	All Farms	Grain<260	Grain>260	All Farms
Fig. 18 18 18 18 18 18 18 18	Number of farms	3	န	က်	66		77	3/	2
149 389 446 4.6 6.1 6.2	Total acres in farm	180	452	181	394	186	189	472	273
4.6 6.0 4.6 6.1 6.1 0.1 7.7 7.2 7.7 7.2 7.7 7.2 7.6 0.1 6.253 1.357 2.83 1.357 2.83 1.357 2.83 1.357 2.83 1.662 2.53 1.662 1.602 2.5514 1.502 2.5514 1.502 3.5514 1.502 3.5514 1.502 3.5514 1.502 3.5514 1.502 3.544 1.502 3.554 1.502 3.554 1.502 3.554 1.502 3.540 1.502 3.540 1.503 6.240 1.044 21.283 40.955 112.165 3.972 2.279 40.955 1.07.914 2.5400 1.509 1.520 1.0	Acres of tillable land	35	416	99	362	159	149	388	\$
4.6 6.1 4.2 607 104,735 2.28 2.28 1,357 2.28 1,357 2.28 1,357 2.28 1,357 2.28 1,357 2.28 1,357 2.28 1,357 2.28 1,357 2.28 1,357 2.49 1,559 2.40 1,559 2.30 1,559 2.30 1,559 2.30 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,5	Soil rating on tillable land	75	F ;	86	85	85	8	8;	ន
Columbia	l otal months labor	4.0	ۍ د د	4. 0	6.2	4.0	ð.	E.9	6.1
42,607 104,735 25.3 1,357 2.25.3 1,357 2.25.3 1,357 2.25.3 1,357 2.25.3 1,357 2.25.3 1,357 2.25.3 1,357 2.25.3 1,357 2.25.3 1,036 2.25.14 2.25.3 1,506 2.25.14 2.25.3 1,506 2.25.14 2.25.3 1,506 2.25.14 2.25.3 1,506 2.25.14 2.25.3 1,506 2.25	Months of hired labor	0.2	0.5	o.	0.5	0.4	1-1	0.2	0.1
42,607 104,735 228 228 1,367 228 1,367 228 1,367 228 1,367 228 1,367 228 1,367 228 2,514 21,506 2,514 21,506 3,664 21,507 106,033 21,405 21,407 21,406 1,209 22,407 23,406 24,374 102,585 25,514 23,307 24,974 102,585 25,514 25,514 27,527 27,5	Beef produced, hundredweight	318	88	4.5	4) (10 (10 (10 (10 (10 (10 (10 (10 (10 (10	~ (28	£ (
42,607 104,735 283 1,357 283 1,357 288 1,036 43,370 108,093 11,606 114,041 28,385 25,514 1,536 3,644 2,497 2,197 2,197 2,105 2	Fork produced, nundredweight	ج ج	8°	20,	o 0	6/6	۰۵	æ, '	કે '
42,607 104,735 1357 1357 1357 1357 1357 1357 1357 1	Dairy cows, number	0	0	0	0	0	0	0	0
42,607 104,735 228 42,837 228 1,636 228 1,636 228 1,636 228 1,636 228 1,636 22,19 23,4370 108,093 23,456 2,417 22,239 23,456 2,405 23,450 24,23	Dollar returns per tarm		, 66 167	1	200		-		
282 1,357 283 1,357 284 43,370 108,093 285 1,036 287 1,036 287 1,606 28,395 2,5,514 2,415 2,415 2,416	Crop returns	50/4	125,284	212'/G	660,721	41,126	42,607	8,7	25,759
228 1,964 43,370 108,093 12,602 26,219 8,895 25,514 1,596 3,496 1,596 3,496 1,596 3,405 1,596 3,405 1,596 3,405 1,596 3,405 1,4974 102,585 6,140 1,4974 102,585 1,404 112,165 3,972 112,165 3,972 12,319 (6,6) (7,7) (12,914 23,89 52,264 (17) (6,89) (12,914 23,89 52,264 (17) (17) 314 23,89 52,264 (17) (17) 314 23,89 52,641 (17) (17) (17) 314 23,89 52,641 (17) (17) (17) 314 24,927 (17) (17) (17) (17) (17) (17) (17) (17)	Livestock returns above feed	842	1,286	474	= :	14,201	553	1,357	9,678
282 1,036 44,370 108,093 1,036 44,370 108,093 1,036 1,	Custom work	569	1,259	250	1,312	0	887	96	988
43,370 108,093 12,602 26,219 18,885 3,514 1,506 3,544 7,146 3,544 1,592 3,664 1,592 3,405 2,105 24,006 1,403) 6,240 1,106 112,005 1,106 112,005 1,106 112,105 1,107 112,105 1,109 112,105 1	Other farm receipts	737	1,094	1,047	266	395	282	1,036	1,381
12,602 26,219 8,895 25,514 8,895 25,514 8,895 25,514 8,895 25,514 8,895 25,514 8,1506 24,974 102,585 2,279 8,3972 9,13 8,134 8,235 2,279 8	Value of farm production	46,551	128,923	59,252	129,519	55,722	43,370	108,093	37,204
12,602 25,219 1,806 25,514 1,806 3,496 1,606 3,644 1,806 3,405 1,606 3,405 1,807 3,405 1,807 3,405 1,807 3,405 1,807 3,405 1,603 6,240 1,603 6,240 1,603 6,240 1,603 1,05 1,603 1,05 1,603 1,05 1,603 1,05 1,603 1,05 1,603 1,00 1,603 1,00 1,603 1,00 1,603 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,604 1,00 1,605	Dollar costs per farm								
4 8.895 2.5.514 1,536 3.496 1,606 3.496 1,502 3.405 2,147 6,322 2,147 6,322 2,147 6,322 2,147 6,322 2,147 6,322 4,4974 102,585 1,404 225 1,503 6,240 1,404 223 40,955 112,165 3,972 12,219 40,955 112,165 2,372 2,274 41,204 223,409 19,961 10,994 11,997 10,597 23,409 10,984 15,265 3,423 6,895 10,984 15,265 3,484 15,265 4,233 6,895 10,984 15,265 3,484 15,265	Crop expenses	11,033	30,949	12,825	58,609	12,716	12,602	26,219	6,509
1,536 3,496 7,146 9,544 7,146 9,544 75 1,606 3,664 1,606 3,664 1,603 3,664 1,603 6,240 2,417 2,4006 2,417 2,4006 2,417 2,4006 2,372 3,972 9,13 3,972 9,13 3,972 9,13 3,972 9,13 3,972 2,279 2,389 5,2,279 2,389 5,2,264 2,367 107,914 2,389 5,2,64 2,367 107,914 2,369 5,2,69 2,967 107,914 2,369 5,2,69 2,967 10,597 2,967 1	Power and equipment	12,567	23,263	11,817	22,348	15,824	8,895	25,514	10,579
7,146 9,544 1,606 3,664 1,582 3,664 2,145 2,146 3,405 2,405 2,105 24,006 114,041 212,830 40,985 112,165 3,972 40,985 112,165 3,972 12,830 40,985 112,165 3,972 12,830 40,985 112,165 3,972 12,830 5,507 12,165 5,508 12,209 5,507 10,591 6,094 17,927 16,984 15,265 3,420 5,409 16,984 17,927 16,984 15,265 3,420 5,409 16,984 15,265 3,420 6,609 16,984 17,927 16,984 15,265 3,420 6,609 17,927 18,984 15,265	Building and fence	3,812	6,731	4,312	5,793	6,601	1,536	3,496	2,075
1,505 3,415 1,502 3,464 1,502 3,405 2,417 6,322 2,417 24,006 44,974 102,585 40,955 112,165 3,972 913 40,955 112,165 3,972 913 616 22,279 23,809 22,840 10,994 45,641 16,984 45,641 16,984 45,641 16,984 15,265 3,895 10,897 16,984 15,265 3,895 10,897 45,641 4,223 5,267 6,884 6,	Labor	8,362	10,243	111.1	689'6	10,115	7,146	9,544	9,627
1,606 3,664 1,606 3,405 2,417 24,006 4,974 102,585 1,603 6,240 1,603 6,240 1,603 6,240 1,603 6,240 2,97 1,209 2,3420 2,279 1,504 2,350 1,504 2,350 1,504 2,350 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,504 1,205 1,505 1,505 1,505	Livestock services and supplies	176	414	8	1	2,660	75	415	998
2 1,592 3,405 3,40	Taxes	3,199	6,954	3,973	7,772	3,350	1,606	3,664	1,038
2.417 6,322 6.44,974 102,585 7 (1,603) 6,240 6.240 6,240 114,041 212,830 40,955 112,165 3,972 913 (6,6) (2,231) 60 60 557 765 1,209 23,420 52,505 10,594 17,327 10,584 15,265 10,584 15,265	Insurance and miscellaneous	2,249	4,694	2,893	3,835	2,785	1,592	3,405	1,785
1,005 24,006 24	Interest on nonland capital	4.127	7.162	3,652	7.431	6.452	2.417	6,322	3,857
6 (1,603) 6,240 7.33 6 (1,603) 6,240 7.34 7.35 7.	Land charge or net rent	13,677	35,380	17,922	37,227	14,773	9,105	24,006	12,783
(1,603) 6,240 (6) 22 (7) 22 (7) 22 (7) 23 (7) 23 (7) 24 (7) 212,830 72 (7) 23 (7) 24 (7) 24 (7) 24 (7) 24 (7) 25 (Total nonfeed cost	59.201	125.790	65.263	122,847	75.276	44.974	102,585	49.120
(1,603) 6,240 (6) 2 114,041 212,830 77 3 40,955 112,165 46 3,972 913 4 (616) (2,231) 6,57 0 235 2,279 11 23,89 5,264 21 23,40 5,240 21 (57) 314 31 (58) (57) 314 0 16,984 45,641 17 5,483 5,585 16 0 0 733 2 0 16,984 45,641 17 0 16,984 45,641 17 0 16,984 15,265 8	Capital account adjustment	924	F	423	2,380	127	0	733	2,967
40,955 112,165 46 3,972 49,955 112,165 46 5,972 49,370 1107,914 37 23,589 52,264 21 (177) (197)	Management returns	(11.726)	3.244	(5.587)	9.052	(19.426)	(1.603)	6.240	(8.948)
2 40.96 112.165 46 3.97	Farm production per \$1.00			(114)			1	1	
114,041 212,830 713,830 713,830 73,830	of nonfeed costs	0.79	1.02	0.91	1.05	0.74	96.0	1.05	0.76
40,955 112,165 3,972 913 (616) (2,231) (616) (2,231) (616) (2,231) (616) (2,231) (616) (61	Farm production per man	104,025	238,614	143,774	251,715	103,742	114,041	212,830	72,949
3 40,955 112,165 3,972 913 (66) (2,231) 66) (57) 107,914 23,530 107,914 23,530 5,276 (171) (57) (58) (171) (57) (58) 23,420 55,505 2,967 10,597 10,584 15,265 5,444 15,265 3,422 5,88	Financial summary								
5 3.972 913 (616) (2.231) (616) (2.231) (616) (2.231) (616) (2.231) (617	Cash operating income	49,466	132,961	60,782	128,511	81,633	40,955	112,165	48,139
(616) (2,231) 616) (2,231) 60 557 765 1,209 23,370 107,914 23,589 52,264 (171) (580) (171) 314 60 412 19,951 55,505 16,984 15,265 16,884 15,265 33 4,223 5,889 4,223 6,895 10,884 15,265 34,423 5,895 4,223 6,895 10,884 15,265 10,884 15,265	Inventory change	2,139	9,239	2,404	9,664	2,635	3,972	913	4,755
5 7 65 1 209 7 235 1,209 7 235 1,209 7 23,370 107,914 23,430 (57) (17) (58) 8 2,967 10,597 7 10,581 17,927 10,584 15,265 3 4,23 5,884 5,884 15,265	Accts. receivable (net change)	(3,240)	(8,229)	(3,522)	(2,985)	(4,333)	(616)	(2,231)	0
7 2355 2.279 44,370 107,914 23,589 52.264 23,589 52.264 (57) (57) 314 0 23,409 19,951 10,597 16,984 15,265 5,494 15,265 6,584 15,265 7,327	Farm products used	8/	539	8	385	35	3	22/	24/
23,589 107,914 22,589 52,264 (171) (580) (177) 314 0 23,409 12,951 10,597 16,984 15,265 16,884 15,265 3,423 5,88	Less purchased feed	80,	2,471	225		7,740	8 8	1,209	26. 4.00
23,420 10,597 11,914 (57) (171) (580) (171) (580) (57) (580) (57) (580) (57) (580) (57) (580) (57) (580) (57) (580) (57) (580)	Less purchased livestock	8	7,811	8	604	176'1	687	2,2/3	30,4
23,535 (57) (57) (57) (58) (57) (58) (57) (58)	Adjusted gross farm income	46,551	128,923	59,252	129,520	55,722	43,370	107,914	37,204
(177) (1980) (177) (1980) (177) (1980) (177) (1980) (177) (1980) (1780)	Cash operating expense	257,12	904.50	10,15	9,50	2000	20,003	102,20	9,1
(a) 23,420 52,409 119,951 5,505 5,505 10,951 10,597 10,597 10,597 10,597 10,597 10,581 15,265 1,588 1,	Acote payable (-if increased)	(SC)	(1,860)	38	(287)	(1,2/5)		344)	0
23,420 52,409 19,951 55,505 2,967 10,597 10,584 17,927 10,584 15,265 3,4,23 5,88	Farm-produced inputs	<u>}</u> °	3 <u>E</u>	3	12	00	8	412	•
2 19,951 55,505 2,967 10,597 0 733 0 16,984 15,265 5,484 15,265 4,23 5,88	Total operating expense	26.891	61.873	31.278	58 940	38.360	23.420	52.409	21.046
2,967 10,597 16,984 45,641 10,581 17,927 5,484 15,265 4,23 5,88	Income before depreciation	19,660	67,050	27,974	70,580	17,362	19,951	55,505	16,158
7 7 0 733 0 16,984 45,641 10,581 17,927 5,484 15,265 3 4,23 5,88	Less depreciation	6,355	11,951	4,823	10,299	6,169	2,967	10,597	1,984
16,984 45,641 10,581 17,927 7) 5,484 15,265 4,23 5,88	Capital account adjustment	924	111	423	2,380	127	0	733	2,967
5) 10,581 17,927 7) 5,484 15,265 3. 4,23 5.88	Net farm income *	14,229	55,211	23,574	62,661	11,320	16,984	45,641	17,141
7) 5,484 15,265 3 4.23 5.88	(operator's share)	2,193	18,131	9,872	22,977	(1,206)	10,581	17,927	8,684
4.23 5.88	Labor & mgt. income per operator	(3,811)	12,525	2,001	17,960	(10,047)	484°	15,265	5.2
	Hate earned on investment, %	8	00	3.33	5/3	3	4.63	0.00	2.3

Note: Vanations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.
* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 27a. 1993 Operating Costs, investments, and Land Use by Size, Type, and Soil Rating for Part-time Illinois Farms that Use Less than 10 Months of Labor

Range for size (total acres) Grain - 260 All Farms Grain - 260 Table - 2214 Soft - 2214 Table	Range in size (total acres) Number of farms Some costs and returns per tillable acre Soll fertility Pesticides Sol fertility Pesticides Crop total Light vehicle and utilities Machinery repairs, supplies Machinery repairs, supplies Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building depreciation Building depreciation Building total Labor, unpaid Labor, infed Labor, infed	29.33 29.33 29.33 29.33 29.33 20.65 10.65 10.65 10.65 11.25 24.44 24.44 24.44 24.44 24.44 24.44 24.44 25.26 24.44 25.26 26.26 26.26 27.26	Grain >260 55 55 31.10 25.44 17.81 17.81 4.97 13.92 5.97 7.28 5.97 5.97 5.88	Grain <260 55 29.09 28.79	Grain >260 59 35.63 25.53	All Farms	Grain<260 22 31.90 30.67	Grain>260 37	Ali Farms 5 13.96
29.33 31.10 29.09 35.63 37.20 23.87 25.44 28.79 25.53 22.14 70.75 74.34 77.19 78.99 80.06 10.56 4.97 8.75 4.96 17.47 16.20 13.22 13.28 15.80 15.80 16.20 2.95 17.47 13.94 15.80 7.84 7.88 7.89 16.77 17.47 7.84 7.88 7.89 15.80 17.47 80.58 5.57 17.47 13.36 15.80 2.44 16.17 26.95 1.57 11.28 2.44 16.17 26.95 1.57 11.20 2.44 16.17 26.95 1.57 11.30 2.45 2.46 46.81 2.67 2.41 89.43 2.45 2.46 46.81 2.67 2.41 89.42 2.46 46.81 2.67 2.41 89.42	Some costs and returns per tillable acre Soil fertility Pesticides Sed and other crop Crop total Light vehicle and utilities Machinery repairs, supplies Machinery depreciation Power and equipment total Drying and storage Building repair Building repair Building depreciation Building total Labor, unpaid Labor, inced	29.33 23.87 17.54 10.65	31.10 25.44 17.81 74.34 4.97 13.92 5.97 5.88	29.09	35.63 25.53	37.20	31.90 30.67	30.84	13.96
29.33 31.10 29.09 35.63 37.20 23.87 25.44 28.79 25.53 22.14 10.65 4.97 8.55 4.96 17.47 10.65 4.97 8.55 4.96 17.47 10.65 4.97 8.55 4.96 17.47 10.65 4.97 8.55 4.96 17.47 14.20 5.97 7.63 6.35 12.98 29.65 2.377 2.377 2.185 31.54 24.44 16.17 2.6.95 15.7 11.21 24.44 16.17 2.6.95 15.7 11.21 24.44 16.17 2.6.95 16.97 3.17 2.08 25.65 2.44 16.17 2.6.95 16.97 3.17 2.08 25.65 2.44 4.56 2.471 89.63 2.23 11.55 7.11 4.28 3.74 2.02 2.26 4.69 1.90 4.28	Soll fertility Pesticides Seed and other crop Crop total Light vehicle and utilities Machinery repairs, supplies Machinery depreciation Power and equipment total Drying and storage Building repair Building depreciation Building depreciation Labor, unpaid Labor, infed Labor, fotal	29.33 17.54 17.54 17.55 10.65	31.10 25.44 74.34 74.34 13.92 5.97 7.28 23.23 25.88	29.09 28.79	35.63 25.53	37.20	31.90 30.67	20.84	13.96
ese 22.87 25.54 22.14 2	ather life and life a	23.87 10.65 10.65 10.65 18.20 18.20 18.58 80.58	25.44 74.34 74.34 7.392 7.392 7.28 7.28	28.79	25.53	3.5	30.67	5.0	-
obal 17.54 17.81 19.31 17.83 20.73 obal 70.76 4.734 17.19 1.64 1.64 1.64 1.64 hick and utilities 10.65 4.34 17.71 4.96 17.74 1.83 20.73 hick and utilities 10.65 4.78 7.28 7.84 1.65 1.64 1.66 and depreciation 29.50 23.73 2.203 2.21 2.159 1.289 and depreciation 29.50 5.27 1.71 6.35 1.57 1.120 9.853 repair 4.74 1.66 2.59 1.57 1.120 9.853 depreciation 1.125 4.95 7.00 5.27 1.120 9.853 repair 4.74 1.66 7.00 5.27 1.120 9.853 depreciation 1.126 2.44 1.6.1 2.5.95 1.6.96 3.74 1.120 depreciation 1.126 2.44 1.6.1	Seed and other crop Crop total Light vehicle and utilities Machinery repairs, supplies Machinery hire Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building repair Building repair Building depreciation Building total Labor, unpaid Labor, inced	70.754 70.75	7.81 7.834 7.834 13.92 5.97 7.28 23.73 23.73	70.07		22.14		19.77	10.76
oblas 70.75 74.34 77.19 78.99 80.06 any philes and utilities 10.66 4.97 15.45 4.96 17.47 any philes and utilities 10.66 1.39 15.45 17.47 15.80 any depreciation 29.50 23.73 22.03 23.17 21.66 and stopplese clation 29.50 23.73 22.03 23.17 21.66 and stopplese clation 29.50 23.73 22.03 23.17 21.66 and stopplese clation 29.50 23.73 22.03 23.17 21.66 depreciation 24.44 16.17 25.26 1.57 11.21 depreciation 24.44 16.17 26.95 41.66 11.26 depreciation 22.64 45.67 24.71 29.53 11.00 depreciation 22.62 22.64 45.67 24.71 20.35 11.20 depreciation 22.22 22.64 45.67 24.71 20.83 41.88 </td <td>Crop total Light vehicle and utilities Machinery repairs, supplies Machinery repairs, supplies Machinery depreciation Fuel and oil Fuel and equipment total Drying and storage Building depreciation Building depreciation Building depreciation Labor, unpaid Labor, inced Labor, inced</td> <td>70.75 10.65 14.39 14.39 20.58 80.58 80.58 11.25 12.44 13.62 13.62 13.62 13.63</td> <td>4.97 4.97 13.92 5.97 7.28 23.73</td> <td>19.31</td> <td>17.83</td> <td>20.73</td> <td>22.11</td> <td>16.76</td> <td>8.86</td>	Crop total Light vehicle and utilities Machinery repairs, supplies Machinery repairs, supplies Machinery depreciation Fuel and oil Fuel and equipment total Drying and storage Building depreciation Building depreciation Building depreciation Labor, unpaid Labor, inced Labor, inced	70.75 10.65 14.39 14.39 20.58 80.58 80.58 11.25 12.44 13.62 13.62 13.62 13.63	4.97 4.97 13.92 5.97 7.28 23.73	19.31	17.83	20.73	22.11	16.76	8.86
thick and utilities 10.65 4.97 8.55 4.99 17.47 sty file and utilities 11.26 14.39 15.45 14.39 17.47 any file and utilities 11.29 5.97 17.47 13.24 15.45 any file 37.44 17.28 22.03 22.03 23.17 21.86 and equipment total 80.58 5.58 71.13 61.70 99.65 and storage 4.45 5.60 22.03 23.17 21.86 and equipment total 29.50 23.74 13.86 13.75 91.6 13.86 and storage 4.44 16.17 91.6 13.75 91.6 13.86 repair 4.75 4.56 7.00 52.7 17.00 repair 4.75 4.56 7.00 23.74 29.23 repair 5.26 2.64 4.68 3.74 29.23 f total 5.26 3.00 4.68 3.74 29.23 <th< td=""><td>Light vehicle and utilities Machinery repairs, supplies Machinery hire Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building repair Building repair Building total Labor, unpaid Labor, infed Labor, infed</td><td>10.65 14.20 14.20 17.84 16.56 16.56 17.57 17.55</td><td>4.97 13.92 5.97 7.28 23.73</td><td>77.19</td><td>78.99</td><td>80.06</td><td>84.68</td><td>67.34</td><td>33.59</td></th<>	Light vehicle and utilities Machinery repairs, supplies Machinery hire Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building repair Building repair Building total Labor, unpaid Labor, infed Labor, infed	10.65 14.20 14.20 17.84 16.56 16.56 17.57 17.55	4.97 13.92 5.97 7.28 23.73	77.19	78.99	80.06	84.68	67.34	33.59
style 18.20 18.20 15.45 13.28 31.54 style 18.20 18.	Machinery repairs, supplies Machinery hire Machinery hire Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building repair Building repair Building total Labor, unpaid Labor, infed Labor, infed	18.20 14.39 14.39 80.58 80.58 84.5 11.7 13.6 52.26 52.26 13.6 53.62 39.50	13.92 5.97 7.28 23.73	8.55	4.96	17.47	11.42	5.81	15.33
and deptiment total 7.84 7.59 7.64 15.80 15.80 4 of depreciation 7.84 7.84 7.83 17.84 15.80 and deptiment total 80.58 5.57 7.63 6.170 99.63 and deptiment total 80.58 5.20 22.03 22.17 21.28 and storage 4.74 1.61 2.26 1.57 11.20 depreciation 1.125 4.95 7.00 5.27 11.70 depreciation 2.44 16.17 2.89 41.56 41.50 mpat total 5.26 2.26 4.56 7.47 4.56 7.47 13.36 purchasses 2.36 2.26 4.66 4.67 2.47 4.28 41.56 purchasses 2.36 2.69 4.68 3.74 2.62 3.74 3.74 3.74 3.74 3.74 3.74 3.74 3.74 3.74 3.74 3.74 3.75 3.74 3.73 3.74	Machinery hire Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building repair Building depreciation Building depreciation Labor, unpaid Labor, infed Labor, riced	14.39 29.58 80.58 80.58 84.5 84.5 11.2.5 52.26 52.26 53.62 39.50	5.97 7.28 23.73 55.88	15.45	13.28	31.54	12.59	19.45	20.45
and depreciation 29.50 23.73 22.03 6.35 12.98 71.19 and storage 4.4 1.6 1.0 13.50 13.50 14.06 15.20 14.10 15.20 14.10 15.20 14.10 15.20 14.10 15.20 14.10 14	Fuel and oil Machinery depreciation Power and equipment total Drying and storage Building repair Building repair Building total Labor, unpaid Labor, nired Labor, fotal	27.84 80.58 80.58 80.58 80.58 11.25 24.44 11.36 13.62 11.36 11.55 39.50	7.28 23.73 55.88	17.47	13.94	15.80	13.29	7.09	3.39
and depreciation 29.50 23.73 22.03 23.17 21.85 and equipment total 80.58 55.88 71.13 61.70 99.63 and stored 4.74 1.66 5.20 5.27 17.00 depreciation 1.25 4.96 7.00 5.27 17.00 depreciation 2.4.4 16.17 25.95 15.99 41.56 maid 2.2.6 2.2.64 4.56 2.0.7 17.00 stated 2.2.6 2.2.64 4.57 2.47 5.99 / 41.56 total 3.2.6 2.2.64 4.56 2.7.7 2.0.4 3.7.4 fleed ed 11.55 7.11 4.28 3.17 2.0.63 3.7.4 fleed ed 11.55 2.4.60 4.58 3.2.7 4.2.8 3.7.4 4.8.8 3.7.4 2.0.4 3.7.4 2.0.2 4.7.8 3.7.4 2.0.2 4.7.3 4.7.3 4.7.3 4.7.3 4.7.3 4.7.3 4.7.3 4.7.3	Machinery depreciation Power and equipment total Powing and equipment total Drying and storage Building repair Building depreciation Building total Labor, unpaid Labor, infed Labor, fotal	80.58 80.58 845 845 845 844 11.25 13.62 13.62 11.55 39.50	23.73	7.63	6.35	12.98	90.9	8.76	8.65
and equipment total 80.58 71.13 61.70 99.63 and storage 8.45 9.56 13.75 99.63 13.96 repair 11.25 4.74 1.66 5.20 1.57 11.20 depreciation 11.25 4.95 7.00 5.27 17.00 depreciation 1.25 4.95 7.00 5.27 17.00 approact 2.264 4.56 7.00 5.27 17.00 ired 2.264 4.56 7.01 2.6.75 6.83.69 ired 3.95 2.264 4.61 4.6.81 2.6.75 6.83.69 ired 3.95 2.26.96 1.90 3.77 2.0.31 2.0.34 3.74 2.0.33 purchases 3.95 2.6.96 1.90 3.27 2.0.32 2.6.75 6.83.69 2.0.27 4.188 2.7.20 2.0.27 4.188 2.0.27 2.0.27 2.0.27 2.0.27 2.0.27 2.0.23 2.0.27 2.0.23	Power and equipment total Drying and storage Building repair Building depreciation Building total Labor, unpaid Labor, niced Labor total	80.58 8.45 4.74 24.44 52.26 1.36 53.62 11.55 39.50	55.88	22.03	23.17	21.85	16.41	24.41	6.79
mode storage 8.45 9.56 13.75 9.16 13.36 repair 4.74 1.66 5.20 1.57 11.21 repair 4.74 1.66 5.20 1.57 11.21 depreciation 11.25 7.70 5.27 17.00 5.27 17.10 nimpoid 53.62 2.264 45.67 2.04 3.74 3.04 3.74 3.05 nimpoid 53.62 2.460 45.67 4.57 1.56 7.11 2.04 3.74 3.04 purchases 3.362 2.460 46.81 2.675 63.69 3.74	Drying and storage Building repair Building depreciation Building stotal Labor, unpaid Labor, niced Labor fotal	8.45 4.74 24.44 52.26 53.62 39.50	22.22	71.13	61.70	89.63	28.77	65.53	54.59
repair 4,74 1,66 5,20 1,57 11,21 depectation 24,44 16,17 25,85 1,57 1,170 off otal 52,26 22,64 45,67 24,71 59,95 riped control 52,26 22,64 45,67 24,17 59,95 riped control 52,26 22,64 46,81 26,17 59,95 total 52,62 24,60 46,81 26,17 59,95 feed fed 11,55 7,11 4,28 3,17 206,35 feed fed 11,55 7,11 4,28 3,17 206,35 feed fed 11,55 7,11 4,28 3,17 206,35 tired fed 28,60 300,34 34,435 350,39 28,93 tirrest paid 28,60 300,34 34,435 350,39 28,93 fam production 29,85 300,34 34,35 350,39 28,93 set ment 77,96 4,573 4,36	Building repair Building depreciation Building total Labor, unpaid Labor, pired Labor total	24.44 52.26 52.26 53.62 1.36 53.62 39.50	9.56	13.75	9.16	13.36	2.59	3.82	0.12
depreciation 1125 4.95 7.00 5.27 17.00 depreciation 1125 4.95 7.00 5.27 17.00 mpaid 52.26 4.681 2.04 3.74 1.15 2.04 3.74 ired 5.26 4.681 2.04 3.74 5.93 4.156 3.74 5.04 3.74 5.06.35 ired 5.36 2.460 4.681 2.04 3.74 2.04 3.74 2.04 3.74 2.04 3.74 2.06.35 3.74 2.04 3.74 2.04 3.74 2.04 3.74 2.04 3.74 2.06.35 3.74 2.06.35 3.74 2.06.35 3.74 2.06.35 3.74 2.06.35 3.74 3.04 3.74	Building depreciation Building total Labor, unpaid Labor, hired Labor fotal	24.44 52.26 1.36 53.62 11.55 39.50	1.66	5.20	1.57	11.21	4.20	2.36	7.15
ng total 24.44 16.17 25.95 15.99 41.56 Impaid 52.26 22.64 45.67 24.71 59.95 Impaid 1.35 2.26 2.264 45.67 2.471 59.95 Impaid 1.35 7.11 4.28 3.77 20.43 3.74 20.63 feed fed 11.55 7.11 4.28 3.17 20.63 3.74 20.63 purchases 23.50 26.96 19.07 32.74 29.23 41.88 22.84 41.88 3.74 20.63 41.88 22.84 41.88 22.84 41.88 22.84 41.88 22.88	Building total Labor, unpaid Labor, hired Labor total	24.44 52.26 1.36 53.62 11.55 39.50	4.95	2.00	5.27	17.00	3.53	2.80	3.44
treated 52.26 22.64 45.67 24.71 59.95 total total 53.26 1.97 1.13 2.04 3.74 5.00 5.20 5.00 5.00 5.00 5.00 5.00 5.00	Labor, unpaid Labor, hired Labor total	52.26 1.36 11.55 39.50	16.17	25.95	15.99	41.56	10.32	8.98	10.71
tried 1.36 1.97 1.13 2.04 3.74 (1.64 led) 1.36 1.97 1.13 2.04 3.74 (1.65 led) 1.55 2.46	Labor, hired	1.36 53.62 11.55 39.50	22.64	45.67	24.71	59.95	47.63	23.72	48.76
total 53.62 24.60 46.81 26.75 63.69 fleed fed 11.55 7.11 4.28 3.17 206.35 purchases 39.50 26.96 19.07 32.74 29.23 tringerst paid 23.13 16.01 20.17 15.32 41.88 turns sk return above feed 28.40 300.94 344.35 350.90 258.96 ffarm production 298.50 300.96 356.63 357.59 350.96 settlement 298.50 300.96 356.63 357.59 350.96 settlement 298.50 300.96 336.91 40.399 tringerst paid cost in 11,720 16,914 5,259 16,429 8,061 fland current) 303.939 786.233 398.268 413,818 22.88 m investment 306.203 888,104 450.552 938,065 413,818 fland current) 303.939 786.233 398.268 45.379 2,226 any invest, per till, acre 75 47.9 47.3 49.3 550.0 mall grain 0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Labor total	53.62 11.55 39.50	1.97	1.13	2.04	3.74	0.39	0.79	0.91
Feed feed		11.55	24.60	46.81	26.75	63.69	48.02	24.51	49.68
purchases 39.50 26.96 19.07 32.74 29.23 rinknest paid 28.65 30.94 34.35 350.90 258.95 2.017 15.32 41.88 286.65 30.094 34.35 350.90 258.95 2.018 28.65 30.094 34.35 350.90 258.95 2.018 28.65 30.094 3.09 2.85 0.31 89.42 28.65 30.094 3.09 2.85 0.31 89.42 379.62 30.094 35.63 35.75 39.095 350.85 350.90 339.17 47.39 350.85 339.17 47.39 350.85 339.17 47.39 350.85 339.17 47.39 350.85 32.988 32	Value of feed fed	39.50	7.11	4.28	3.17	206.35	3.05	11.96	109.08
rinterest paid 23.13 16.01 20.17 15.32 41.88 trinterest paid 28.65 30.094 34.35 350.90 28.95 28.95 trinterest paid 28.65 30.094 34.35 350.90 28.95 trinterest paid 298.50 30.94 3.09 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.85 0.31 89.42 2.439 0.31 89.43 2.439 0.31 89.43 2.439 0.31 89.43 2.439 0.34 2.439 0.34 2.439 0.34 2.329 0.32	Capital purchases		26.96	19.07	32.74	29.23	27.01	29.57	22.13
turns 286.65 300.94 344.35 350.90 258.95 258.95 258.95 258.95 258.95 258.95 258.95 258.95 258.95 258.95 259.85 250.35 </td <td>Operator interest paid</td> <td>23.13</td> <td>16.01</td> <td>20.17</td> <td>15.32</td> <td>41.88</td> <td>9.34</td> <td>17.22</td> <td>25.38</td>	Operator interest paid	23.13	16.01	20.17	15.32	41.88	9.34	17.22	25.38
Figure F	Crop returns	286.65	300.94	344.35	350.90	258.95	286.30	269.00	132.91
If arm production 298.50 309.68 356.63 357.59 350.85 Innead cost 379.62 302.16 336.83 357.59 350.85 Innead cost 7.79 (33.63) 24.99 473.98 estment eturns 4,197 4,573 819 2,888 32,988 sextment eventory 29,127 70,680 35,329 80,140 30,455 ing cost in reveltory 11,720 16,914 5,259 16,429 8,061 ing cost in reveltory 11,720 16,914 5,259 16,429 8,061 ing cost in reveltory 11,720 16,914 5,259 16,429 8,061 ing cost in reveltory 11,720 16,914 5,259 16,429 8,061 ing cost in reveltory 13,014 46,033 388,104 46,055 827,262 326,299 infly correction 1,964 2,485 2,379 2,226 46,056 47,3 45 51 infly correction 30,39 41,	Livestock return above feed	5.40	3.09	2.85	0.31	89.45	1.70	3.49	49.94
Infections (75.19) 7.79 (33.63) 24.99 (122.32) (Value of farm production	298.50	309.68	356.63	357.59	320.82	291.43	277.62	191.97
Continuent cetures	Total nonfeed cost	379.62	302.16	392.80	339.17	473.98	302.21	263.48	253.45
skinventory 4,197 4,573 819 2,888 32,988 32,988 inventory 29,127 70,680 35,329 60,140 30,455 ing cost in 11,720 16,914 5,259 16,429 8,041 13,989 (serior) and auto 13,104 9,631 10,860 11,184 13,989 [lilly cost in 1,1720 18,914 14,914 14,914 [lilly cost in 1,1720 18,914 14,18 [lilly cost in 1,1720 18,914 14,19 [lilly cost in 1,1720 18,914 14,19 [lilly cost in 1,1720 18,914	Management returns	(75.19)	7.79	(33.63)	24.99	(122.32)	(10.78)	16.03	(46.17)
Ki Inventory 4,197 4,573 819 2,888 32,988 Vewflory 29,127 70,680 35,329 80,140 30,455 Ing cost in ring cost in ring cost in ring cost in 1,720 16,914 5,250 16,429 8,061 Per sand auto 11,720 16,914 16,260 11,184 13,989 2,861 Gills and fill core 303,939 786,233 398,258 827,262 328,299 2 Find (current) 303,939 786,133 888,104 460,552 938,055 413,818 2 Astment per acre 75 41 460,552 938,056 45 51 45 51 Illable land in acre 49,7 47,9 47,3 49,3 56,0 56,0 52,0 56,0 ns 35,9 41,8 46,0 42,2 22,0 22,0 22,0 ns 35,9 41,8 46,0 42,2 22,0 22,0 ns 35,0 47,3 48,0 48,0 </td <td>Farm investment</td> <td></td> <td>į</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Farm investment		į						
Verticity (1.72) 16.914 5.259 16.429 8.061 and pasture (1.72) 16.914 5.259 16.429 16.929 16.299 16.	Livestock inventory	4,197	4,5/3	819	2,888	32,988	1,019	8,032	30,631
land (current) 303,939 786,233 398,258 16,429 8,061 7 7 1 1,172 1,104 9,631 10,860 11,184 13,989 3 1 1,104 15,989 11,184 13,989 3 1 1,104 15,989 11,184 13,989 3 1 1,104 15,989 11,184 13,989 3 1 1,104 15,989 11,104 12,104 12,108 11,104 12,108 11,104 12,102 11,104 12,10	Grain inventory Remaining cost in	6 3,127	0000	620'00	2-100	604,00	20,410	7,00,40	0/6'01
gs and fence 13,104 9,631 10,860 11,184 13,989 3 Illility 28 46,233 398,286 87,622 328,299 202 m investment 362,093 888,104 450,552 938,065 413,818 234 destment per acree 2,015 1,964 2,485 2,379 2,226 134 avg invest, per till: acre 75 41 32 45 51 61 d com silage 35,9 41,8 46,0 0,9 0,9 35,0 mall grain 0,3 0,3 0,1 0,1 0,1 1,9 ds, bushels per acre 1,7 0,8 4,9 4,8 6,1 ds, bushels per acre 18 4,3 4,7 4,9 4,9 ds, bushels per acre 18 4,9 4,9 4,9 4,9	machinery and auto	11.720	16.914	5.259	16.429	8.061	7.540	20.334	4.391
Find (current)	buildings and fence	13,104	9,631	10,860	11,184	13,989	3,219	5,044	3,771
Italy current 303,939 786,233 398,285 827,262 328,299 202		9	7	88	162	8	0	2	0
m investment 362,093 888,104 450,552 938,065 413,818 224 vestment per acre 2,015 1,964 2,485 2,379 2,226 1 illable land in 49,7 47,9 47,3 49,3 56,0 ns allage 35,9 41,8 46,0 42,2 22,0 35,9 41,8 46,0 42,2 22,0 35,9 2,2 0,0 0,9 3,5 nadl grain 0,3 0,3 0,1 0,1 1,9 nadl grain 1,7 0,8 0,2 0,8 7,8 ds, bushels per acre 118 121 138 141 102 ns sextment 121 138 141 102 ns sextment 121 138 141 102	-	303,939	786,233	398,258	827,262	328,299	202,331	533,473	284,059
Pay in the series 2,015 1,964 2,485 2,379 2,226 1 1 32 45 51 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		362,093	888,104	450,552	938,065	413,818	234,520	621,809	333,422
any invest, per till, acre 75 41 32 45 51 illable land in drom slage 49.7 47.9 47.3 49.3 56.0 ns 35.9 41.8 46.0 42.2 22.0 ns 3.2 0.0 0.9 3.5 mall grain 0.3 0.1 0.1 1.9 acress 5.6 5.5 4.9 4.8 6.1 ds, bushels per acre 1.7 0.8 0.2 0.8 7.8 ds, bushels per acre 118 121 138 141 102 ns 44 43 47 48 41	Total investment per acre	2,015	1,964	2,485	2,379	2,226	1,244	1,318	1,220
lable land in dorn silage	ary invest, per tili.	75	4	35	\$	5	5	25	ឧ
49.7 47.9 47.3 49.3 56.0 35.2 22.0 3.5 41.8 46.0 42.2 22.0 3.5 5.3 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	Percent tillable land in	;	į	į	•	-			
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5.6 5.5 4.9 4.8 6.1 10.9 5.5 1.8 1.7 1.8 1.21 1.38 1.41 1.02 4.8 4.1 1.02 4.4 4.3 4.7 4.8 4.1 1.02	Soybeans	9.0°	4. 5. c	0.0	2.24	0.70	4. 5. 5. 4.	0.5	5.7
5.5 5.5 4.9 4.8 6.13 7.8 1.7 0.8 0.2 0.8 7.8 1.18 121 138 141 102 4.4 4.3 4.7 4.8 4.1	Other small grain	9 0	4 6	S -		9 -		<u> </u>	9 6
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118 121 138 141 102 44 43 47 48 41	All hav and pasture	2.4	900	e c	e c	7.8	r ee	300	16.2
118 121 138 141 102 44 43 47 48 41	Crop yields bushels per acre	:	2	į	2	?	2	!	
44 43 47 48 41	Com	41	12	138	141	100	134	117	110
	Sovbeans	4	4	47	. 4	4	88	37	32
48 50 46 39	Wheat	\$	84	8	4	33	ଊ	8	28

ASSOCIATIONS, FIELD STAFF, AND COOPERATORS ENROLLED



RETIREES



Robert "Bob" Rodgers

This Macon County native attended Millikin University in Decatur for 2 years before enrolling at Iowa State University. He graduated in 1950 with a B.S. in agriculture, farmed in partnership with his father for 2 years, and in 1953 earned an M.S. in agricultural economics from the University of Illinois at Urbana-Champaign. During his graduate study he was

employed by the U.S. Department of Agriculture as an account book auditor and a graduate research assistant.

After completing his graduate degree, Rodgers managed a Piatt and Champaign County farming operation that grew to 1,020 acres in 8 years. In 1961 he was employed by the Bloomington Farm Management Service as a farm manager.

In September of 1963, after briefly serving as an insurance representative, Rodgers began work for the Lincoln FBFM Association. He completed over 30 years of service for FBFM, serving farmers in Greene, Macoupin, Jersey, and Calhoun counties. He was an early adopter of microcomputer technology to assist in the accounting and income tax processing tasks of FBFM employment.

Rodgers was a member of the Illinois and American Society of Farm Managers and Rural Appraisers for many years.



George Shafer

Born and raised in West Virginia, Shafer attended Virginia Polytechnic Institute and received a B.S. in agricultural education in 1950. After teaching vocational agriculture in high school and 2 years in the Army, he earned an M.S. in agronomy from West Virginia University in 1955 and another M.S. in agricultural economics from the University of Illinois in 1957.

Combining his training in agronomy and agricultural economics, Shafer worked for the Soil Conservation Service in Wisconsin as an agricultural economist from 1957 through 1960. In September 1960 he was employed by Sangamon Valley FBFM Association. This appointment began more than 32 years of employment with FBFM, during which he served cooperators primarily in Morgan and Scott counties and in Cass County during the early part of his career. His agronomic training was an excellent resource to assist his cooperators in analyzing the productivity of different soils and also in implementing approved soil conservation practices.

Shafer is an active church member; among his other activities, he served as director of the Jacksonville Church Softball League for over 20 years. He is also active in various hunger relief programs.



L. David Schroll

Reared on a farm in Mercer County, Schroll attended Millikin University before tranferring to the University of Illinois at Urbana-Champaign. He received a B.S. in agriculture in 1952, served 2 years in the Army, and then returned home to operate the home farm with his brother. In 1959 he moved to California for 2 years to help manage a turkey farm.

In January 1962, Schroll was employed by Western FBFM Association. He had been familiar with FBFM, as his home farm was enrolled in the program and his father was the first president of the Illinois FBFM Association. He spent 2 years with Western FBFM before accepting a position with the Illinois Power Company in Decatur. Schroll returned to FBFM employment when he began work for Pioneer FBFM in August 1966. The geographic area he serviced encompassed a large part of Tazewell County. In total he served FBFM for almost 30 years.

Schroll was known for his high degree of integrity and professionalism. He was among the first to encourage cooperators to record all of their financial data in order to receive complete and accurate financial statements. In many respects, Schroll set the standard in job performance for other field staff to follow.



Gordon Wakey

This Henry County native attended Cornell College in Iowa before transferring to the University of Illinois at Urbana-Champaign. He received a B.S. in agriculture in 1955. From 1959 to 1966, Wakey represented a feed company, worked in the farm management business, and became co-owner of a grain and feed business. He then

took a position as a farm manager with Hutchinson Farm Management Service in Geneseo.

In 1968 he began a 25-year career with the University of Illinois Cooperative Extension Service. He served as a Rock Island County assistant and associate extension adviser in agriculture from 1968 to 1976. During this time he earned an M.S. in extension education from the University of Illinois. In December 1976 he transferred to Will County as a senior extension adviser in agriculture. Wakey was employed by the Northeastern FBFM Association in October 1981 and served cooperators in Will County for 12 years before retiring. During his many years with the University of Illinois Cooperative Extension Service, he established a reputation as a very dedicated and conscientious fieldman.

Prepared by D.H. Lattz, C.E. Cagley, Clark Roberts, and Irene Chow of the Department of Agricultural Economics

Urbana, Illinois

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